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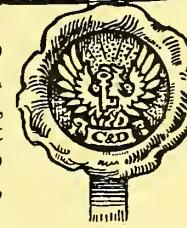
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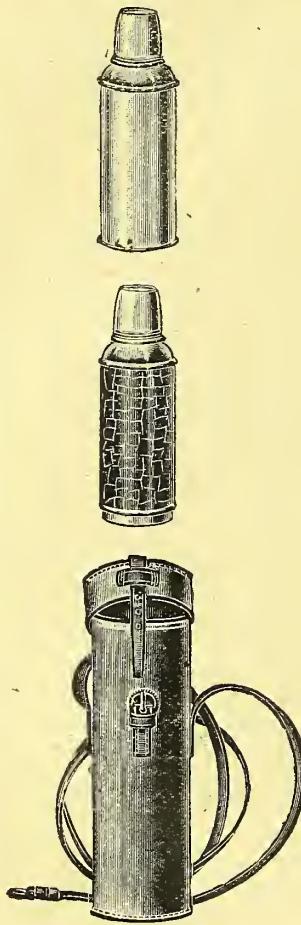
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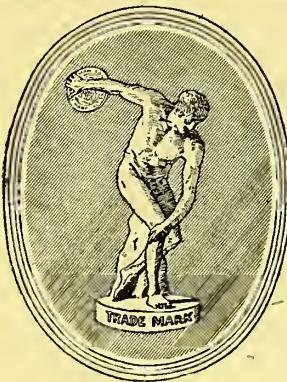
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Feb. 4, 1922

No. 538



When we Refuse Business

IT requires a good deal of courage to refuse business for the sake of a principle, especially in these strenuous times. Yet almost every day we politely refuse to supply our goods to retailers who are not chemists. There is no getting behind this policy. Our rule is just as inflexible to-day as it has been during the whole of the 113 years the House of Maw has been in existence. If you are a bona-fide chemist, Maw's will be pleased to supply you; and, what is more, they will do their utmost to protect your interests by refusing to supply outside competitors.

This is a policy of true loyalty. It has been maintained by the reciprocal loyalty of those chemists who recognise the importance of restricting their competitors to their own profession. You help to protect yourself and the craft generally when you support Maw's policy of Exclusiveness.

Buy it at Maw's

Telephone:
City 7
Private
Branch
Exchange

Telegrams:
Eleven
Cent
London

S. Maw, Son & Sons, Ltd.
Aldersgate St., London,
and Barnet.

Cables:
Eleven
London

Code
A.B.C.
4th & 5th
Edition





Regnas “1814” Eau de Cologne

In Regnas “1814” Eau de Cologne we have produced a perfume of distinguished merit, presented in faultless style.

Eau de Cologne has long since ceased to be purely a German product, and its title is now seldom associated with the town of that name.

“1814” Eau de Cologne proves beyond doubt that this splendid perfume can be and is produced at its best by British makers.

To this end—the dissociation of Eau de Cologne with its German taint—the packing of Regnas “1814” Brand was designed.

The Old English label, in the form of an ancient parchment with its illuminated initials, is exceedingly striking, the idea being carried still further by the use of drawn script characters.

The various sizes shown above, in wickers, colognes, and pocket flasks, lend themselves to very distinguished window-dressing, and we shall always be pleased to provide showcards to assist in producing a striking show. We should like you to test “1814” Eau de Cologne against any other brand, as we are confident we have produced a perfect article as near as is humanly possible.

Full spirit content, finest essences, and perfect incorporation result in a dainty perfume, lasting and pleasing to all users.

P.A.T.A. PRICES			
	Retail		
1-oz. ...	2/6	21/0	doz.
2-oz. ...	4/6	40/0	“
4-oz. ...	8/6	75/0	“
8-oz. ...	16/6	144/0	“
½-pt. wicker	14/6	10/6	each
1-pt. ”	28/0	20/0	“
1-qt. ”	55/0	38/6	“
Pocket Flask—			
1½-oz. (approx.)	2/9	23/0	doz.
5 % discount on £5 orders.			
7½ % ” ” £10 ”			





It is not so much the shape of the bottle

—the commonsense “non-tip-over” kind—that inspires this announcement, so much as the fact that we are the actual manufacturers of

“EVANS’ LYSOL”

and, therefore, know it to be of a quality by itself.

It dissolves easily.

It is free from tarry odour.

Only the purest vegetable oils are employed.

It is free from excessive alkalinity or causticity.

It contains the full 50% of double distilled cresylic acid. Further, in supplying an abundance of gay and original advertising matter, now available, we add a “punch” to the sale of a Lysol which by virtue of its quality sells itself.

PRICES—

7/6 12/8 21/- 34/3 per
doz.
£5 Orders, 5% discount.

Carriage Paid on £5 Ord. rs.

You are missing Sales!

IF YOU DO NOT STOCK



- ¶ WE receive dozens of orders daily from private individuals who inform us that they cannot obtain it from their Local Chemist.
- ¶ "PELDO" is stocked by all the leading Patent Houses, or can be obtained direct.

RETAIL PRICE

1/6

EACH NET
(P.A.T.A.)

Attractive
Window Display
material and
Showcards sup-
plied. Sample
Tubes supplied
gratis in propor-
tion to quantity
ordered.



WHOLESALE

PRICE

13/6

PER DOZEN

In order to introduce
"Peldo" we are offering
a special bonus for a
guaranteed window dis-
play of not less than 14
days as follows :

On Orders of 1 gross a
bonus of 18 full-size tubes

On Orders of 6 dozen a
bonus of 8 full-size tubes

On Orders of 3 dozen a
bonus of 3 full-size tubes

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, EMMOTT STREET, MILE END, E. 1.

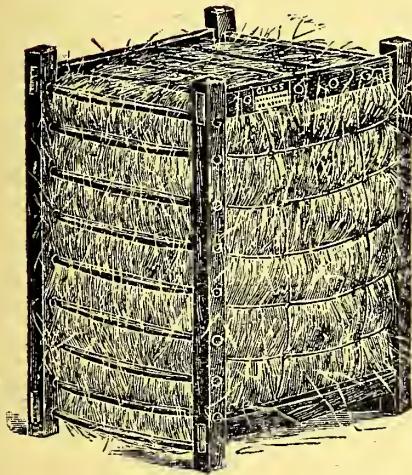


Shattered Prices

for sound Bottles. To reduce stocks and save the expense of removal to our new premises, we offer

4,000 Gross of sound Bottles at exceptionally low prices

They include Flats, Colognes, Perfumes, Cod Liver Oil Emulsions, Kalis, Limes, Mexicans, Panels, Poisons, Pomades, Squares, Salines, Stoppered Flats, Tablets, Vials, and other varieties in daily use in a Pharmacy.



It will pay you to carefully read our Special Bottle Sale Price List, issued to the trade on February 1. Don't miss this opportunity, but write to-day for a copy if you have not received one. Prompt shipments guaranteed.

AYRTON, SAUNDERS & CO. LTD.
Manufacturing Chemists

Hanover Street, LIVERPOOL

Telegrams: "SUNDRIES LIVERPOOL."

Special New Year Offer.

Woodward's "Gripe Water"

Window Display Terms to Retail Pharmacists.

From the 1st January, W. WOODWARD (1920) LTD., will, in respect of the first gross of any order from a Pharmacist for "Gripe Water," send 13 doz. bottles for the price of 12 doz. viz., £7 NETT, carriage paid in free case, with

AN ATTRACTIVE SET OUT FOR A WINDOW DISPLAY

This Display shall be in a central position of the window and for not less than two weeks. This offer will be renewed during 1922 with **EVERY ALTERNATE GROSS** ordered by the Pharmacist.

Pharmacists willing to give the Display should mark their orders "on Window Display Terms" and sign the form of contract-note which will be sent them on receipt of their orders.

Such orders may be placed with the Pharmacist's usual Wholesaler or direct with us.

These special terms will hold good throughout the year 1922.

W. WOODWARD (1920) LTD.,
79/87, FORTRESS ROAD, LONDON, N.W. 5.

Pharmacists will please note that Woodward's Fixed Terms for Great Britain from 1st January, 1922, are:—

£7 NETT PER GROSS, CARRIAGE PAID, AND CASES FREE.

In Ireland applications for Window Display must be made direct to our Agents:—

Messrs. JOHNSON BROTHERS of Ireland.

TRADE MARK
W.H. & S.

Check

the onslaught of INFLUENZA
with

“VAPEX”
INHALANT

2/-
per Bottle 2/-
per Bottle

on your handkerchief
— just a drop gives all-day protection.

Reg No. 130

THOMAS KERFOOT & CO., LTD., LONDON AND BARDSTON VALE.

**Miniature of a Coloured Showcard now
going out with all orders for “VAPEX”**

A copy will be sent to any Chemist on request.

THOMAS KERFOOT & CO LTD
BARDSTON VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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IT WILL PAY YOU

TO USE

S & S { Window Slips AND Showcards . .

The Sign of



Satisfaction

WRITE FOR PARTICULARS NOW

SUTTLEY & SILVERLOCK, Ltd.

The World's Label Printers

BLACKFRIARS, LONDON, S.E.1

NEW-SKIN

Trade Mark.

KNOWN ALL OVER THE
WORLD AS THE
STANDARD LIQUID
PLASTER.

TRADE PRICES.

Retail Price.

10½d. Pocket Size...	...	...	Trade Price.
2/- Medium Size ...	...	...	8/5 doz.
3/- Physician's Size ...	...	...	19/2 "

£3 and up Carriage paid.

Order through your wholesaler or direct.

Sole Agent for British Isles and Colonies—

J. E. GARRATT,

96 Southwark Street, London, S.E.1.

Telephones:
HOLBORN 5503.
CITY 65.

Telegrams:
FORSHAPCO,
WESTCENT,
LONDON.

FORD SHAPLAND & CO LTD.
LABEL & GENERAL PRINTERS

**FINE ART SHOWCARDS, CARTONS,
ENVELOPES FOR SHAMPOO POWDERS,
CORN SILK, ETC.**

**"Sol-Vo" Sanitary Paper
in Rolls & Packets.**

AGENTS FOR THE REGISTRATION
OF TRADE MARKS.

**G TURNSTILE
HIGH HOLBORN
LONDON W.C.I**

“ZORBO”

When you see that word you know you have
something which is the best of its kind.

“ZORBO” WOOL

The highest grade—good, clean, absorbent cotton. It is all cotton, and no waste enters into its manufacture. It is on the P.A.T.A. List, giving the Pharmacist a good profit, and the Public sound value for money.

“ZORBO” PNEUMONIA JACKETS

The ideal thing for cases of pneumonia or chest troubles. Highly absorbent and well finished, ready for immediate wear. You will not have complaints about “Zorbo” Jackets. Six sizes.

“ZORBO” SURGICAL SUNDRIES

Including Aural and Nasal Syringes in Rubber and Glass. Enema Syringes, Air Cushions, Hot Water Bottles. Everything thoroughly reliable and beyond criticism.

“ZORBO” POCKET INHALER

Is an attractive and efficient article, much in demand at present. It consists of a glass inhaler for nose and throat, with a small glass phial to take your own medicament. Packed in smart box and priced moderately.

*Get better acquainted with the “Zorbo” Series by sending for Price List.
Samples of Dressings Free. Samples of Sundries on approval.*

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ROBERT BAILEY & SON
LTD.,

49-51 CENTRAL STREET, LONDON, E.C. 1

Phone: City 8744.

Wires: “Undisputed, Isling, London.”

N.V. CHEMISCHE FABRIEK "NAARDEN"

BUSSUM, HOLLAND.

*Distillers of Essential Oils, and Manufacturers of
Synthetic Chemicals, Pharmaceutical Products, etc.*

ALDEHYDES	DIPHENYL OXIDE	NEROLINE
AMYL SALICYLATE	GERANIOL	PHENYL ACETIC ALDEHYDE
AUBEPINE	HELIOTROPINE	PHENYL ETHYL ALCOHOL
BENZYL ACETATE	IONONE	RHODINOL
BENZALDEHYDE	METHYL ANTHRANILATE	SAFROL
BROMSTYROL	METHYL HEPTINE CARBONATE	TERPINEOL
CITRAL	MUSKS	VANILLIN
COUMARIN	MUSTARD OIL	&c. &c.

ALMOND, CORIANDER, DILL, FENNEL, LEMON, MANDARIN,
PEPPERMINT, LAVENDER, SAVIN, etc., in Stock.

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Telephone: CITY 4719.

Telegrams: "GERBROMCO, CENT, LONDON."

CHLOROPHYLL

HIGHEST QUALITY.

ABSOLUTELY PURE.

UNIFORM DELIVERIES.

CHLOROPHYLL C. Oil soluble. Blue Shade.

CHLOROPHYLL CG. Oil soluble. Yellow Shade

CHLOROPHYLL S. Water and spirit soluble.

THE SANDOZ CHEMICAL CO. LTD., BRADFORD.

ROURE BERTRAND FILS, GRASSE. Established 1820.

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),

VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.
We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France
Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

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Warehouse: 3/4 MALLOW STREET, OLD STREET, LONDON, E.C. 1
Wholesale Houses only supplied.

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H. RAAB & CO.

ROERMOND, HOLLAND.

Manufacturers of

Base Perfumery Products and Flower Oils.

RACO

MUSK AMBRETTE c.p. 100%.

MUSK KETONE c.p. 100%.

MUSK XYLOL c.p. 100%.

OLEUM-MUSK art.

generally regarded as the
STANDARD.

Sole Representative for the U.K.:

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DODGE & OLcott CO., LONDON, E.C. 3.

THE "D & O" BRAND
is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu,
TONKA BEANS, Angosturas.

Phone—
CITY 2468

Telegrams—
EGDARF, FEN, LONDON."

JAKSON'S PEPPERMINT, LAVENDER & CAMOMILE OILS are the BEST.

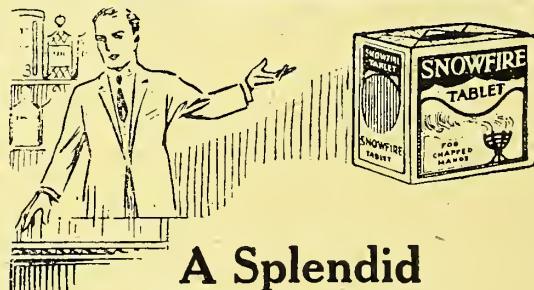
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THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.

Distillery :
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.

AGENTS for the U.K. :
F. NEWBERY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C. 1.

Two Saleable Lines.
"PURIFIN" ANTISEPTIC CONE,
In Nickel-Plated Case. (For use after Shaving, etc.)
Pale helio—very attractive—a great improvement on the old
crude antiseptic block.
12/- Dozen. Sell 1/6.

HELLIER'S STYPTIC PENCILS
(Astringent). Round ends—attractively labelled.
2/- Dozen. Gross lots 23/-
Special quotations for Wholesalers and Shippers.
THE TOILET GOODS HOUSE.
W. E. BINGHAM & CO., Shudehill, Manchester.
Telephone : 1073 City. Telegrams : "Arneeta Manchester."



A Splendid Winter Seller

Snowfire is in immediate and continuous demand during the winter because of its wonderful protective and beautifying properties. Well advertised, liberal profits. Replaces the 1d. and 2d. tablet trade, does not affect sale of expensive creams.

Snowfire

TABLET

Write to-day for Terms—
F. W. HAMPSHIRE & Co., Ltd.,
RIVERSIDE WORKS, DERBY.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles.			
ALLACITE OF ORANGE	22/6	2/6	
A dressing cream.			
BLOSSOM			
BORANIUM	22/6	2/6	
A hair tonic.			
SILMERINE	22/6	2/6	
Hair curling fluid.			
CLEMINITE	22/6	2/6	
For a face lotion.			
COLLIANDUM	22/6	2/6	
For a face tint.			
PERGOL	22/6	2/6	
A deodorant.			
STALLAX	22/6	2/6	
For a shampoo.			
JETTALINE	31/6	3/6	
For clearing the skin.			
PHEMINOL	36/-	4/-	
A depilatory.			
TEKKO PASTE	22/6	2/6	
Camphor cream.			
MENNALINE	36/-	4/-	
For the eyelashes.			
MERCOLIZED WAX	31/6	3/6	
A face cream.			
STYML	36/-	4/-	
For oily complexions and blackheads.			
BARSYDE	22/6	2/6	
Dandruff eradicator.			
TAMMALITE	22/6	2/6	
For grey, or faded hair.			
LIQUID PERGOL	31/6	3/6	
To check excessive perspiration locally.			
BICROLIUM	22/6	2/6	
For whitening the hands.			
COCONOIDS	31/6	3/6	
For figure development.			
HARAPOSA	22/6	2/6	
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

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DEARBORN, Ltd., Grace House, Clarence Street, Sydney.**SOUTH AFRICA:**LENNON, Ltd.
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Parfumeur
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FAIR TERMS AND FAIR
TREATMENT ARE
MAKING US NEW
FRIENDS & BETTER
FRIENDS EVERY DAY

VISIT OUR
SHOWROOM
WHEN
IN TOWN

AND INVESTIGATE
OUR CLAIMS WITHOUT
ANY OBLIGATION TO
BUY.

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W. H. CALNAN, General Manager

Telephone: Wall 9966

"VICTRA" TOILET SPECIALITIES



1½-oz., per doz. 5/6
2½-oz., " 8/6



4-oz. flat panel per doz. 8/-

Will bring many
repeat orders.



4-oz. flat panel No. 1, per doz. 9/-
4-oz. round No. 2, per doz. 6/6
10-oz. " " " 12/-

Good Sellers with
a good profit.

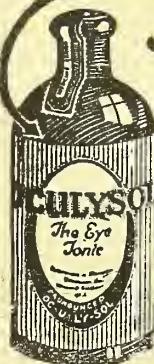


4-oz. flat panel per doz. 8/6



2-oz. flat panel per doz. 7/
4-oz. flat panel per doz. 9/6

WM. EDWARDS & SONS
157 Queen Victoria St., E.C. 4.



To introduce **OCULYSOL**

THE IDEAL EYE TONIC

to your customers means additional profits—revised terms allow you 33½%—because Oculysol commends itself upon trial.

Liberally advertised and free samples distributed. Particulars of Special Bonus Scheme accompany every bottle—this alone will create repeat orders for you.

Obtainable from Wholesalers and Sole Proprietors:

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Overseas enquiries invited.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

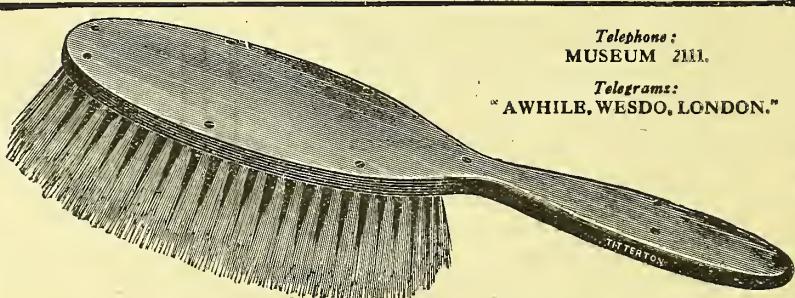
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HAIR BRUSHES

NAIL BRUSHES.
CLOTHES BRUSHES.
SHAVING BRUSHES.

*Everything in the way
of Brushes.*



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Teleg. " AWHILE, WESDO, LONDON."

TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET,
LONDON, W. 1.



**PUT THIS ON
YOUR COUNTER
AND
WATCH RESULTS!**

PROFIT

P.A.T.A.

50%

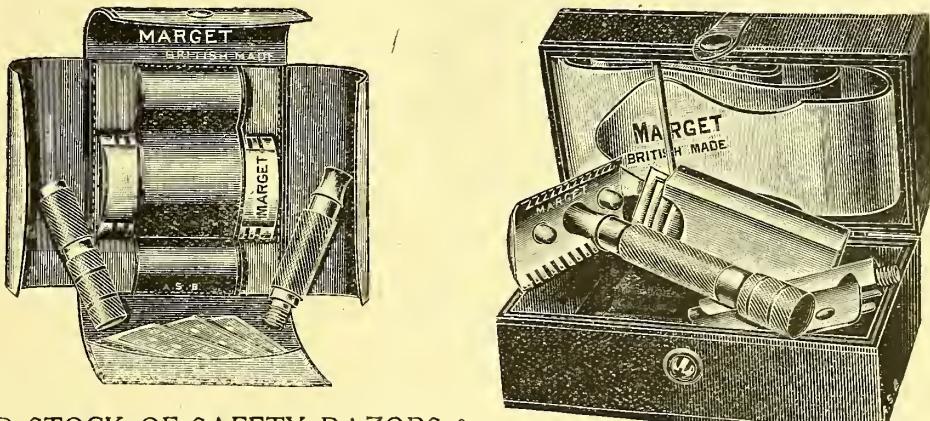
ON TURNOVER.

THERE'S A BONUS, TOO.

There are many Shaving Soaps on the market, **BUT** which pays you best.

PER **12/- DOZEN**
PACKED AS SHOWN.

ADOLPH SCOTT, Ltd. 24, 25 & 26
GT. HAMPTON ST.,
BIRMINGHAM.



VARIED STOCK OF SAFETY RAZORS &
ORDINARY HOLLOW-GROUND RAZORS.

Also large Range of Nickel
Shaving Stands and Mirrors.

*Electro Plate and
Silver Novelties.*

Catalogues on Application.

EVAN WILLIAMS'
ORIGINAL
Henna
Shampoo

Your Customers will insist on the Evan Williams' HENNA SHAMPOO having been taught by experience. Are you ready to meet their demands? Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

The EVAN WILLIAMS CO., LTD.,
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WOODBURY'S FACIAL SOAP

AND
OTHER TOILET
PREPARATIONS

"The Skin you love to touch"

Perth, Ontario - CANADA

Woodbury's	Retail P.A.T.A.	Per doz. Net. TABLETS
Facial Soap ...	1/6	13/9
„ Cream, in Jars ...	3/6	27/-
„ „ in Tubes 2/-		16/-
Cold Cream, in Jars ...	3/6	27/-
„ in Tubes ... 2/-		16/-
Dental Cream, in Tubes	1/6	13/3
Tooth Powder, Granulated, a New and Superior Form of Tooth Powder	1/6	13/3
Shaving Sticks in Aluminium Cases	2/6	20/-
Ointment ...	1/9	14/6
Refills for Aluminium Cases	1/6	12/-
Camphor Ice and Glycerine Sticks	1/-	8/-
Facial Powder (3 shades)	3/3	26/-

Sole Agents for the United Kingdom:

HENRY C. QUELCH & CO.
4 and 5 Ludgate Square,
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TUSKOID

Superfine Cut—Non-Inflammable.

Fine Tooth Combs.

8/- 10/- 12/- per dozen.

Glass-fronted Showcase free with 3 dozen Combs.
£1 10 0

MAZEPPA ENGLISH MADE TOOTH BRUSHES

Transparent. Three Colours.

4 Row; Best Bristles	... ...	11/6 doz.
3 Row, Children's...	... ...	8/- doz.

GENUINE IVORY FOLDING POCKET MANICURES

Containing Nail File, Toothpick and Cuticle Spoon.
8/- doz. carded.

BONE NAIL FILES

Assorted sizes. 1 doz. on card. 3/- per card.

H. J. LEE & CO.
Osborne Works, LANCASTER.

BEIERSDORF'S Medicated PLASTERS AND SOAPS

(Pilot Brand)

UNNA'S ORIGINAL FORMULÆ

GUTTAPLASTS

Salicylic Acid	Medicated SOAPS
Aluminium Acet.	Ac. Carbolic
Zinc Oxid.	Ac. Salicylic
Ac. Carbolic c. Hydrg.	Salicylic Tar. Sulphur
Ac. Salicyl. c. Cannab.	Balsam Peru
Ind.	Balsam Peru and
Hydrg.	Camphor
Capsicum on Cretonne,	Camphor
etc. etc.	Camphor c. Sulphur
	Sulphur, etc. etc.

"NIVEA," Unna's Superfatted
Toilet Soap

LEUKOPLASTS SALVE MULLS

EUCERINUM—Unna's Special
Ointment Base. Hydrous and Anhydrous.

Stocks now held by SOLE Wholesale Agents:

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9-10 ST. MARY-AT-HILL, LONDON, E.C. 3.

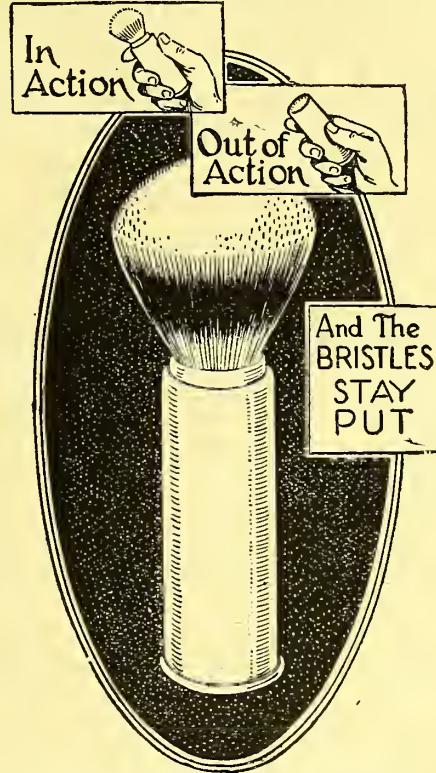


"MASTERPIECE"

Patent Travelling

SHAVING BRUSHES

IN ONE PIECE NO LOOSE PARTS
EACH IN BOX EACH GUARANTEED



7/6, 13/6, 15/6, 17/6 & 25/-
RETAIL. DISCOUNT 33½%.

Showcards Supplied.

ORDER A RANGE TODAY.

W. H. CALNAN & Co., Ltd.
30-32 LUDGATE HILL, E.C. 4.

Endorsed by
the Medical
Profession.

(Original shown on
application.)



Approved by
Eminent
Bacteriologists.

(Original shown on
application.)

THE GREAT ATMOSPHERIC DISINFECTANT.

For the Daily Disinfecting by Spraying of Offices, Banks, Factories, Institutions, Schools, and the Home.

THE SURE PREVENTATIVE OF INFLUENZA, DIPHTHERIA, SCARLET FEVER, and other
RETAILLED AT :— CONTAGIOUS DISEASES.

Size (o) Containers to make ONE Gallon	-	6/9
" (a) " "	TWO "	12/6
" (b) " "	THREE "	17/6

COMPLETE OUTFIT consisting of Size (a) container, Sprazone Sprayer & Filter Funnel, £1 1 0

Sample Bottles sufficient to make ONE QUART of Sprazone Disinfectant at 2 1/- per doz.

LIBERAL TRADE DISCOUNT

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Laboratories : CAUSEWAY HOUSE, S.E.I.

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CANNON'S CORNER
EVERY WEEK YOU WILL FIND HERE SOMETHING GOOD

GENUINE GILLETTE BLADES

(Made in U.S.A.)

Box of 10 doz. for 36/-
10 Boxes at 35/- per Box.

(Made in Canada.)

Box of 10 doz. for 33/6.
10 Boxes at 32/- per Box.

Fine quality, highly finished

NAIL AND CUTICLE SCISSORS

1 doz. assorted for 8/6.

H.A.CANNON AGENT AND
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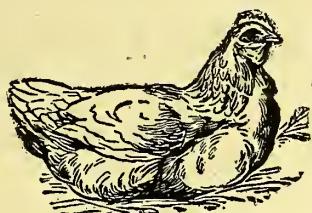
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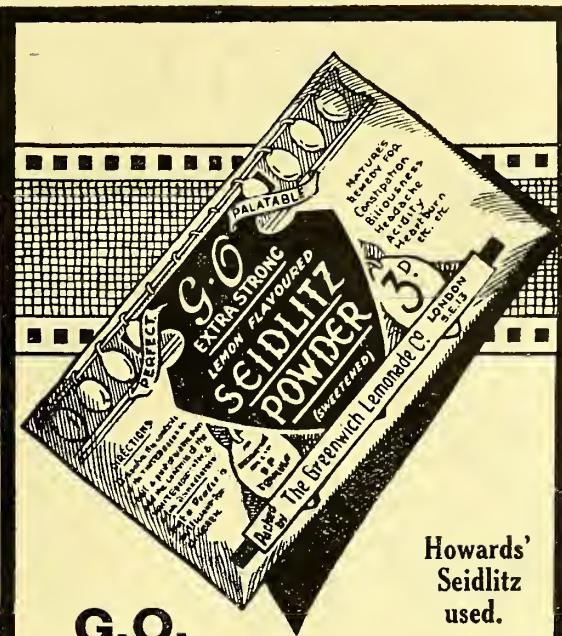
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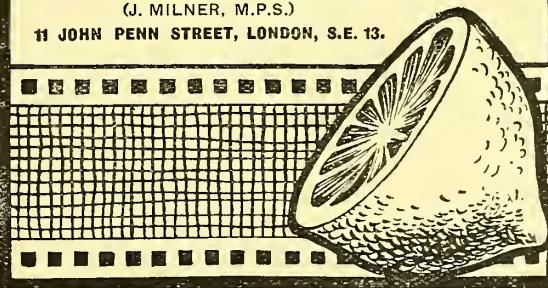
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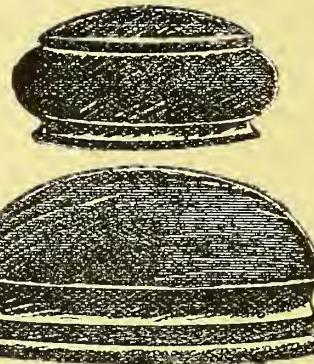
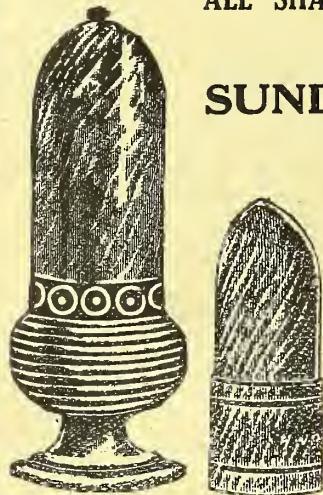
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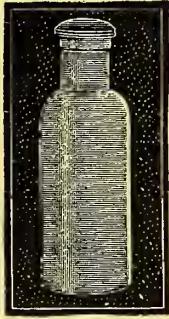
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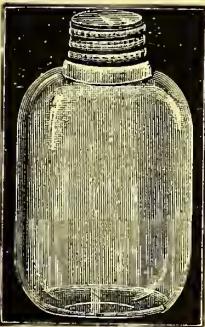
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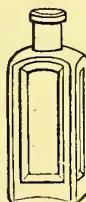
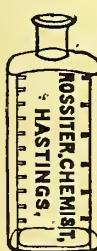
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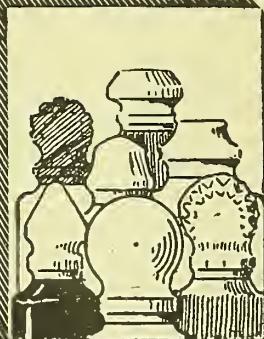
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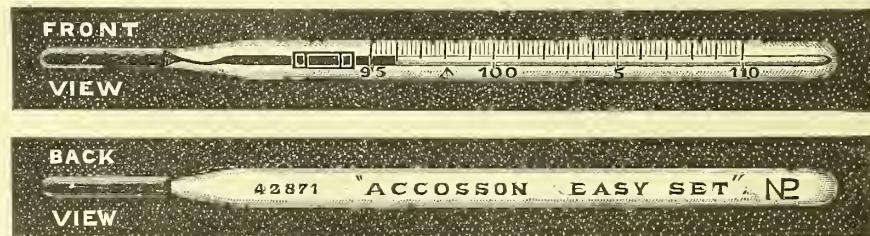
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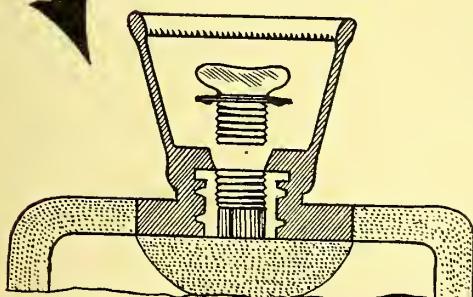
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"Ronoleke" Hot Water Bottles are all sold at P.A.T.A. protected prices, showing you a very handsome profit.

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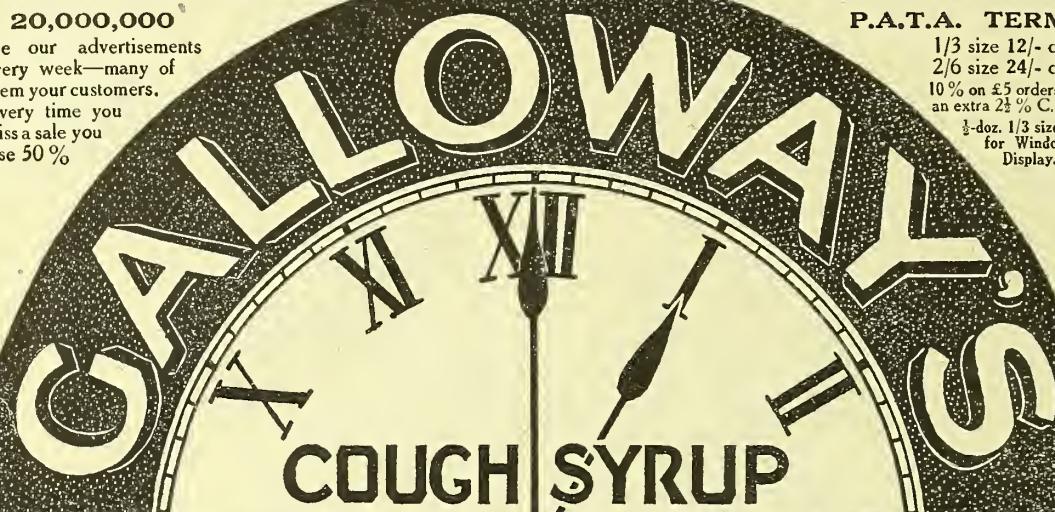


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them your customers.
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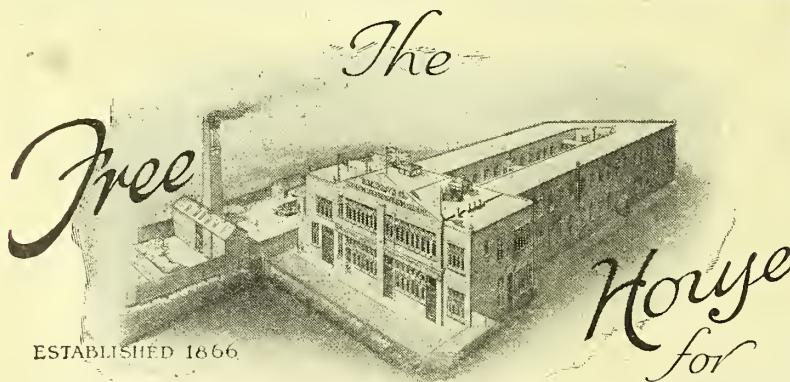
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It is supplied in sealed boxes bearing guarantee and each containing 4 ounces, the amount usually prescribed for a meal. Detailed directions for use are included.

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Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, February 7, on which day the samples will be posted. Students' reports will be received up to Saturday, February 18.

The analysis announced above forms the fourth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be rewarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

A Dangerous Drugs Act in Jersey

The States of Jersey has passed a Bill relating to the sale of and traffic in dangerous drugs, bringing the island into line with British legislation. During the course of the debate the Mayor (Connétable) of St. Helier expressed the opinion that the law would become a dead-letter, for the simple reason that it would be found impossible to put its provisions into execution. In the circumstances he would abstain from voting. The President of the States (Sir William Vernon) agreed that there were certain clauses which in theory were right but which in practice could not be given effect to. It really meant that honest people would not import the drugs, but others would. The Bill was finally read for a third time and adopted in its entirety.

Chemists' Defence Association

A meeting of the directors of the Chemists' Defence Association was held on January 25 at 19 Tavistock Square, London, W.C., Mr. John Keall in the chair. There were also present Messrs. Atkinson, Barnes, Clarke, Currie, French, Gillegan, Hague, Hardy, Hindle, Jackson, Keall, Lloyd, Martin, Matthews, Melluish, Milner, Pickard, Ridyard, Rowsell, Walshaw, and Young. The secretary reported regarding a number of claims for damages and the subjects upon which legal advice had been given. Arrangements have been made with the Association's analyst whereby articles outside the Pharmacopœia may be analysed on favourable terms. Letters from members were discussed, and the draft annual report and balance-sheet to be presented to the annual meeting in March was approved.

Society of Apothecaries of London

At the Assistants' examination which ended on January 26, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Adams, G. F.	Goodman, E. G.	Parsons, K. M.
Allcock, M. C.	Hall, V.	Paterson, L. S.
Ashberry, K. F.	Hammond, A. A.	Payne, H. N.
Aske, E.	Harrison, G. B.	Pickering, M.
Backler, E. E.	Harvey, C.	Reeves, D. C.
Banks, D. M.	Hawkes, D. E.	Scott, I.
Barson, D.	Hawkins, D. G.	Sichel, V. M.
Bennett, L. M.	Huxstep, L.	Sims, C.
Binns, L. L.	Jackson, M. C. H.	Stafford Badger, A.
Bourne, K. M.	Jones, I. K.	Kirby, M.
Bradsworth, J. E.	Lachlan, F. L.	Statham, A. K.
Brunskill, M. A.	Lawrence, E. M.	Timberlake, M. E.
Carruthers, F. M.	Leahy, J. G.	Tobin, A. O. M.
Chidley, D. W.	Lilley, M. N. P.	Walters, N. L.
Cocks, E. M.	McKenzie, J.	Ward, M.
Davies, F. E.	Morris, D.	Williams, I. C.
Desch, M. L.	Newton, W. A.	Wilson, E.
Dunn, M. E.	O'Connor, A.	Wiseman, D. V.

Gold Leaf Imports

The Committee, presided over by Dr. J. H. Clapham, C.B.E., which is considering an application by gold-leaf manufacturers in this country for the imposition of a duty on imported German gold leaf, completed its task of hearing evidence on January 24. The whole hearing has occupied only two days. The case for the applicants having been heard previously (see *C. & D.*, January 14, p. 47), Mr. MacKenzie Wood, M.P., who appeared on behalf of the London Chamber of Commerce and other opposing bodies, said gold-beating was to some extent a luxury trade, and luxury trades felt a general industrial depression a little more quickly than others. The imposition of a duty on gold leaf would cause something approaching devastation among the trades that used the leaf. Mr. Basil Wickham Willett, a director of John Lane, Ltd., book publishers, said that if the price of the gold leaf were raised by the

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imposition of a duty it would, to a large extent, mean the discontinuance of the use of gold leaf in books, and Mr. Robert Leighton, of Leighton, Sons & Hodge, wholesale bookbinders, said as long as he could remember the foreign leaf had been the staple supply. After further evidence the Committee concluded its public sitting, and it will report to the Board of Trade in due course.

Birmingham

Delay in obtaining quotations for sodium carbonate is often caused by the loose way in which that term is used—locally, at all events.

The Bournville employees of Cadbury Bros., Ltd., presented Mr. and Mrs. Edward Cadbury with an address and painting on the occasion of their silver wedding.

There was a fair attendance of pharmacists (in spite of the awkwardness of the hour) at the second of Dr. J. Newton Friend's lectures (*C. & D.*, January 14, p. 40).

Mr. John M. Freeman (J. & E. Freeman, Ltd., chemists), brother of Mr. W. Marshall Freeman, barrister-at-law and pharmacist, has been adopted as a candidate in All Saints' ward in the by-election for the City Council.

A meeting of the local section of the Society of Chemical Industry was held on January 26, when a paper by Dr. D. F. Twiss, Mr. S. A. Brazier, and Mr. F. Thomas on "Accelerators of the Vulcanisation Process" was read.

Mr. B. G. Watson, chemist and druggist, who recently passed the Final examination of the Royal College of Physicians, intends to practise in King's Heath, where he was formerly in business. Mr. Watson studied at Birmingham University.

Dr. J. F. Hall-Edwards has been awarded a medallion and an annuity of £100 by the Carnegie Heroes Fund trustees in recognition of his pioneer work in radiography, as a result of which he lost his left hand and four fingers of his right hand. Dr. Hall-Edwards is still in practice.

Liverpool

Vacuum flasks in increasing variety form many window-displays.

A renewed spell of damp weather has stimulated the anti-“flu” trade.

The Liverpool Chemists' Association had no fortnightly meeting this week.

Mr. Robert C. Herman, chemist and druggist, who has represented Warbreck Ward in the City Council since 1906, has been raised to the Aldermanic bench. His brother (and partner), Mr. John Herman, chemist and druggist, will have the first refusal of the vacant seat for the ward.

At Liverpool Police Court, recently, Emil Graf, a German ship's fireman, appeared on remand charged with concealing 2½ oz. of cocaine with intent to evade the Regulations. The city analyst (Mr. W. H. Roberts) deposed that the suspected substance was a mixture containing sulphonal, but no cocaine. The accused was discharged.

There are various ways of playing the Good Samaritan. A young woman, who in a fit of temper fled from Glasgow the other day, and reached Liverpool with only a few shillings in her pocket, soon repented of her rashness. In this plight she consulted a pharmacist, who gave her advice and assistance with such effect that she regained her home the same night. A letter of thanks from the parents has been received.

Mr. W. H. Saunders, F.C.S., chairman of Ayrton, Saunders & Co., Ltd., has contributed some interesting impressions of his visit to the United States in 1920 to the "Daily Post" of January 26. In addition to points made in his article in the *C. & D.*, II., 1920, p. 1147, Mr. Saunders has some apposite remarks on the business methods practised in the States—e.g.:

I was also struck with the huge trade protection societies, in which the commercial standing of practically every firm in America and leading firms in other countries was rated in proportion to their capital, credit, standing, ramifications, etc., etc. In this particularly I noted a marked contrast to the procedure of trade protection societies in this

country. Here we take no pains; in fact, sometimes avoid as much as possible giving particulars of our standing, and this information has usually to be obtained by inquiries, sometimes direct, mostly indirect. In America, on the other hand, the information is given directly to the societies by the firms or companies themselves. I found, too, every precaution was taken to adjust the rating from time to time so as to make the information absolutely reliable. As a matter of curiosity, I asked one of these societies for the rating card of my own company in Liverpool. This was shown to me in a few seconds, absolutely correct and up to date.

Manchester

The authorities of Manchester University have appointed Mrs. May B. Craven, M.Sc., assistant-lecturer in chemistry.

The executors of the late Mr. Hermann Woolley, Ph.C., who was for many years treasurer of Manchester University, have given a donation of £1,000 towards the endowment of a lectureship in pharmaceutics.

The question of the appointment of a medical officer of health for Manchester continues to arouse interest and controversy. There appears to be a likelihood of a struggle between one or more medical bodies and the Manchester City Council, which considers that £1,500 a year is a sufficient salary.

Among the traders summoned at the City Police Court on January 25 for contravention of the Shops (Early Closing) Act, 1920, were two drug-store proprietors, Messrs. William Capper, 21 Rosamond Street West, Oxford Road, and Joseph Tomlinson, 44 Preston Street, Hulme. Both of these defendants are on the panel for supplying drugs (other than scheduled poisons and medicines which require to be dispensed) and prescribed appliances. Mr. Capper was fined 10s. and Mr. Tomlinson (against whom two offences were proved) 30s.

Sir William Veno (chairman of the Veno Drug Co., Ltd.) has offered the sum of £10,000 to any student or graduate who, within the next five years, is able to satisfy the Royal College of Physicians and Surgeons, London, that he has discovered an effective cure, which is not surgical, for cancer. Sir William Veno had some time ago a trying experience in regard to this disease. An affection of the lip, which was causing him discomfort, was diagnosed as cancer; but, fortunately, after a searching examination, the trouble was found not to be of a malignant nature. This experience, however, brought home to him the urgency that exists for cancer research. Sir Ronald Ross, in a letter to the Press in support of the principle of such prizes, writes:

I submit that prizes such as those offered by Lord Atholstan and Sir William Veno will bring into the army of attack a large number of volunteers who now stand looking on at a distance because they cannot afford to do anything else. Certainly, the "cure" will not be discovered by "mere cogitation in an armchair"; but there are hundreds of practitioners who are constantly coming into contact with cancer and who, if they can be persuaded to spend time on the subject, might help in attaining the final victory. Most of the great discoveries in medical science have perhaps been made by such men, who were amateurs when they achieved them.

A largely attended meeting of Rexall agents took place at the Midland Hotel on January 26 to hear an address by Mr. Louis K. Liggett, President of the United Drug Co. In the course of his speech Mr. Liggett announced that the company had decided to withdraw proposals made a few months ago for a suggested working arrangement between Rexall agents and the branches of Boots, Ltd., in view of the fact that the proposals were not accepted unanimously by Rexall agents. The Rexall business would, therefore, be continued on the same lines as at present. Other speakers included Mr. W. C. Church (who acted as chairman), Mr. G. M. Gales (President of Liggetts International), Sir Thomas Robinson (Dublin), Mr. Edwin Thompson (Liverpool), Mr. E. A. Atkins (London), Mr. W. J. Hardy (Belfast), Mr. Harold Lomax and Mr. M. L. Daniels (Liverpool), Mr. George Whitfield (Scarborough), Mr. A. S. Price (Birmingham), Mr. R. G. Edwards (Manchester), Mr. W. Lean (Burton-on-Trent), and Mr. F. Phillips, J.P. (Haverfordwest).

Nottingham

Mr. M. W. Chambers, chemist and druggist, gave an informative address on milk to the Cosmopolitan Debating Society on January 29.

Dr. S. R. Trotman, F.I.C., the city analyst, was one of the joint authors of a paper on "Cotton Bleaching," given at the Nottingham University College on January 25, before the local section of the Society of Chemical Industry.

At Nottingham Police Court, on January 26, Lizzie Potter, a charwoman in the employ of Boots, Ltd., Station Street, was placed on probation for three years on a charge of stealing a diamond ring from Jessie Jeffery, another employee.

Miscellaneous

PRISON DISPENSERS.—The Prison Commissioners have agreed that the annual leave of a pharmacist officer in the Prison Service be increased to twenty-eight days after fifteen years in that rank.

STUDENTS' SOCIETY FORMED.—The staff and students of Leeds College of Pharmacy have formed an Association, the "Altior" Students' Society, with the object of stimulating interest in scientific and other topics. The President is Mr. F. Pilkington Sargeant, F.C.S., Ph.C., and the secretary Mr. Paul Dobson, Ph.C. The first meeting was held on January 28, when Mr. A. W. Lupton, Ph.C., gave an address on "The Creation—and Before."

JUDGE'S COMMENTS ON POISON LAW.—In charging the grand jury at the Cornwall Assizes on January 31, Mr. Justice Rowlatt mentioned the murder charge against Ernest Edward Black (see p. 44). The point arising from the case, said his lordship, was as to whether the law governing the sale of poisons did not need overhauling. True, a man had to give his name before poison was sold to him, but he might very easily give somebody else's name.

GERMAN GLASS FOR X-RAY TUBES.—Mr. G. C. Aimer, an x-ray tube manufacturer, of Mortimer Market, London, states in the "Daily News" that German glass is essential for the making of the tubes, and that he cannot get it without paying the 33½ per cent. import duty on it. Added to that is a percentage for reparations. The result is that German firms are selling in London for about £5 each x-ray tubes which he has to place on the market at about £7 10s.

PRESENT TO PRINCESS MARY.—The borough of Great Yarmouth has decided that its wedding present to Princess Mary shall be an ivory-coloured shawl of silk crêpe marocain and a full piece of the same fabric. These are being specially woven at the factory of Grout & Co., Ltd., makers of the "Norvic" crêpe bandages. Messrs. Grout made a similar fabric for the Queen on the occasion of her wedding and, as on that occasion, are handing the payment for the present to the local hospitals.

FOOTBALL MATCH.—A team chosen from the head office of Burroughs Wellcome & Co., London, E.C. 1, visited Dartford on January 28 to play a football match with an eleven representing the "Wellcome" chemical works. Dr. Jowett, the works manager, kicked off, and a keen struggle ensued. The London team scored first, but the final score was five to three in favour of the works. The match was followed by tea, an impromptu concert, and a dance in the gymnasium of the "Wellcome" club and institute.

ADMINISTRATION OF THE DANGEROUS DRUGS ACT.—The chief constable of Coventry, in his current annual report, gives particulars of the provisions of the Dangerous Drugs Act, 1920. The report states that visits have been made to thirty chemists' shops, with a view of seeing that registers and prescription files are kept in proper order, and that institutions and factories which keep "first-aid" remedies have been inspected. The Act, he remarks, is far from popular, and some time will ensue before it works smoothly.

SHOPS BROKEN INTO.—The shop of Mr. N. R. Hilton, chemist and druggist, Bognor, was entered during the mid-day closing-hour on January 24, and a cash-box contain-

ing notes and coin to the value of nearly £30 was taken away. An attaché-case was also removed, but the contents of the till were left untouched.—At Huddersfield Police Court, recently, three men, named Wrigley, Shaw, and Gill, were each sentenced to a month's hard labour for breaking into the shop of Mr. Stephen Stephens, chemist and druggist, Milnsbridge, and stealing four bottles of Wincarnis, value 24s. The damage to the window through which admittance was gained is estimated at £7.

IN THE COURTS.—At Barnsley, on January 26, Mr. Percy George Dales, chemist and druggist, Stairfoot, was ordered to pay costs for failing to have affixed to his premises his name and words to describe the business for which he held a justices' licence. A witness for the prosecution said that the sign had since been put up.—At North London Police Court, on January 27, Edmund H. Tunbridge, warehouse clerk, was charged on remand with the murder of Margaret Evans on January 14. Counsel for the prosecution stated that after being arrested the accused threw away a bottle containing potassium cyanide. Evans, whose body was found in the River Lea, had been in his company on the date in question. A *post-mortem* examination showed that death was not due to drowning, and that hydrocyanic acid was present in different organs of the body. Counsel said he regretted that potassium cyanide could be easily obtained. The cyanide in question had been secured from a wholesale chemist's by a friend of the accused employed there. A remand was ordered.—At Thames Police Court, on February 1, Albert Joseph Gardiner, 46 Lochnagar Street, Poplar, was remanded on a charge of stealing £196 10s., the moneys of his employers, The "Sanitas" Co., Ltd. A detective-sergeant stated in court that £124 of the amount had been recovered.

Irish News

Brevities

Mr. Charles Abernethy, registered druggist, 234 Albert Bridge Road, Belfast, has taken the adjoining shop for converting into additional premises.

Mr. F. T. Smith, J.P., R.D., Medical Hall, Antrim, has been unanimously re-elected chairman of Antrim Urban Council for the sixth time. Mr. Smith is President of the Dental Society of Ireland, and takes an active part in public affairs.

The Southern Irish Court of Appeal dismissed the appeal by Mr. James Neely, principal teacher in the Presbyterian Schools, Dundalk, from the verdict and judgment of £125 damages obtained by Mr. W. J. Campbell, farmer, Ballymascanion, for injuries to his son, Leonard, aged seventeen, through an explosion during a demonstration in chemistry at Mr. Neely's school.

Londonderry

Mr. S. S. Badger, Ph.C., the Medical Hall, Magherafelt, was the principal proposer of Brigadier-General Sir William Hacket-Pain, K.B.E., C.B., to represent South Londonderry in the Imperial Parliament.

The Committee of the Londonderry Chemists' and Druggists' Association for 1922 are: *Chairman*, Mr. W. G. Mitchell; *Secretary and Treasurer*, Mr. A. E. Dickson; Messrs. H. M. Kelly, Joseph Wellwood, James Glendinning, and Hubert Sweeny.

Mr. R. F. McCartney, Ph.C., Coleraine, and Mrs. McCartney, on January 26, entertained the members of the St. Patrick's Church Badminton Club, of which Mr. McCartney is this year the captain. Prizes also provided by the host and hostess, were distributed by Mrs. McCartney.

A PERSONAL OPINION.—The Chief Constable of Sunderland, in his recent annual report, states that chemists should use more discretion when selling methylated spirit and satisfy themselves that it is not to be used as an intoxicant. They would then, perhaps, be the means of stamping out that class of intoxication, he adds.

Scottish News

Composition of Cream Powder

At Airdrie Sheriff Court, on January 30, the adjourned inquiry was held concerning the charge brought by the Lanarkshire County Council against the Fletcher Chemical Co., Glasgow, for selling 1 cwt. of cream powder which, it was alleged, was not genuine, in respect that it contained more than 10 per cent.—viz., 27 per cent.—of calcium sulphate. The evidence of many experts was given to show that the article in question was in use by bakers as a substitute for cream of tartar, and that there was no standard fixed by the Board of Health against its use in Scotland other than a report by Dr. Hamil, their advising analyst, recommending not more than 10 per cent. to be allowed. The Sheriff said it was quite clear the charge had not been proven, and he found the accused not guilty.

Edinburgh

One city pharmacy was closed for some days owing to the illness of the principal and assistants.

The insurance branch of the Scottish Board of Health has removed to 121A Princes Street. The accounting branch remains in the Grassmarket.

More than one pharmacy has dispensed a record number of prescriptions during the influenza outbreak, which, according to the medical officer of health, shows signs of abating.

The reprinting of a paragraph, recommending the chewing of a piece of Peruvian bark, from a London paper has been the means of sending many anxious inquirers to chemists.

Mr. Edward Spence, chemist and druggist, who passed the final examination for the triple qualification (L.R.C.P.E., L.R.C.S.E., L.R.F.P.S.G.) recently, has for some years been identified with several wholesale and retail chemists' businesses in Edinburgh. He is the son of the late Mr. Robert Spence, M.D., and the late Mrs. Christina M. Spence, chemist and druggist, Linlithgow.

The death is announced of Mr. A. B. Steele, a well-known Edinburgh naturalist, aged seventy-six. Mr. Steele was secretary of the Edinburgh Field Naturalists' and Microscopical Society from 1894 to 1899, and President from 1907 to 1913. He has been responsible for many papers on the flora of the district, and was also an authority on fungi. He was a Vice-President of the Scottish Cryptogamic Society and a Resident Fellow of the Botanical Society of Edinburgh. Mr. Steele retired from the Royal Scottish Museum about eleven years ago.

Dental Registration

THE following notice has been issued in regard to the steps to be taken by pharmaceutical chemists or chemists and druggists applying for registration under the Dentists Act, 1921 :

Every person who desires to be registered as a dentist under Section 3 (3) of the Dentists Act, 1921, should *read carefully* the following instructions:

The enclosed form of statutory declaration should be filled up in the applicant's own handwriting.

If a birth certificate cannot be obtained, some other documentary evidence showing the applicant's age must be furnished.

Some corroborative evidence, as, for example, receipts for dental materials, or other documents showing that a substantial practice has been carried on, should be sent.

Names of persons must be supplied who have been living in the neighbourhood in which the applicant has been practising. It is useless to give the name of a person who has not been a neighbour.

Paragraph 8 is required only in the case of an applicant who is unable to satisfy the requirements by reason of his having served in His Majesty's Forces. He should make his claim here, and should forward evidence of the service and of any professional work done during the time.

The declaration, when filled up and signed by the applicant, must be made before a magistrate or a commissioner for oaths; it must be stamped 2s. 6d., and then forwarded

in the enclosed envelope to the Registrar of the Dental Board, 44 Hallam Street, Portland Place, London, W. 1.

No remittance should be sent at this stage.

The receipt of the form will be duly acknowledged, and if it is in order, and if satisfactory replies are received from the persons whose names have been given as references, a notification will be sent to the applicant, and, on receipt of the prescribed fee, a certificate of registration will be issued. Members of the Chemists' Dental Society who have not received the registration forms sent out by the Society are asked to apply at once to Mr. G. J. Lusher-Pentney (secretary), 98 Queen's Road, Dalston, London, E. 8.

Poisonings

THE following cases of fatal poisoning, among others, have been recorded since our last report :

At Bridlington, Mr. Michael Needer, formerly a Hull shipbroker, committed suicide by inhaling chloroform.

At Romford, Albert Thomas Compton, described as a dentist, committed suicide by taking carbolic acid while of unsound mind.

At Brighton, Mr. William Rice Flack, dental surgeon, Westcliff-on-Sea, committed suicide by taking a narcotic poison while of unsound mind.

At Oldham, a man whose body had not been identified at the date of the inquest (January 30) was found dead from hydrocyanic-acid poisoning.

The trial of Ernest Edward Black on a charge of murdering his wife by administering arsenic (*C. & D.*, January 28, p. 54) began at the Cornwall Assizes on February 1. The evidence given was practically a repetition of that tendered in the lower court. The case had not concluded when the adjournment was reached.

"*Felo de se*" was the verdict returned at an inquest held at Bagthorpe on Mary Woolley, daughter of a lace manufacturer. Through a niece, Miss Woolley procured a packet of white precipitate powder, on the pretence that it was wanted for her hair. Later she was found by a night nurse very ill, and in answer to a question said she wished she had taken twice the quantity. The jury exonerated the niece from blame.

An inquest was held in Shoreditch, London, on January 27, on the body of Henry Keer, an employee at the white-lead works of Champion, Druce & Co., Southgate Road, N. The evidence showed that death was due to lead poisoning, and that white lead must have been inhaled in fine particles through a respirator. A medical witness stated that twenty years ago such cases were not infrequent, but very few instances of the severest form of lead poisoning were now reported. In 1899 there were 399 reported cases of lead poisoning from white-lead works; last year the number had dwindled to thirty. He was more in favour of the removal of the dust by the use of a fan than the use of a respirator. The coroner recorded a verdict of "Death by misadventure."

An inquest was held in Marylebone, London, on January 26, on the body of Eric Goodwin, a motor engineer, who died a few days previously after a self-administered injection. Mr. William Horton, chemical manufacturer, Liverpool, identified the body. A coloured witness named Blackett, relating the circumstances of the death, said that while they were waiting in a house in Hallam Street, W. 1, for the return of a friend, Mr. Goodwin asked for a spoon. He then took from his waistcoat pocket a small box and a piece of brown paper. He put some white powder on the spoon, added some water, struck a match, and held it under the spoon. After it boiled he took a syringe and pushed it into his right arm. Dr. T. Rose said that he examined the powder found on the dead man. It was heroin, there being about 20 gr. in the packet. Taken hypodermically, 2 gr. would be a poisonous dose. He thought heroin was more dangerous than morphine, but it was preferred by many. He could not say how Mr. Goodwin procured such a quantity, but suggested that he might have had it before the restrictions came in last September. The coroner recorded a verdict of "Death from heart failure on taking hypodermically an overdose of heroin."

Legal Reports

Debtors and Creditors.—In the Mayor's and City of London Court, on January 27, before Mr. Registrar Dell, a claim was made by J. Hunnell Christian & Co., Ltd., leather goods manufacturers, 16 Edmunds Place, against Mr. W. H. Alkins, chemist and druggist, Brighton Road, Coulsdon, Surrey, for £29 for goods sold in the way of trade. The defendant appeared and said he could not pay the plaintiffs their account. He had other judgments against him, and was at present paying off three at the rate of £5 a week. He had a pretty fair business, but last month he had done badly. He had three assistants in his business. It was a well-fitted shop, but was overstocked. Plaintiffs' representative : Why cannot you sell some of the stock and clear this off? The Registrar : Well, a chemist cannot have an auction sale of his goods or put up a notice that he has a sale on. The stock more or less clears itself automatically. The Registrar said he would make an order for the defendant to pay £4 a week. The defendant said he was already paying £15 a week. The Registrar : You cannot expect the plaintiffs to give you time and stand the racket all the while. If the defendant found it more than he could do, added the registrar, he must let some of the other creditors have a rest. Judgment was entered for the plaintiffs for the amount claimed, and the order made was for payment of £4 a week.

Mr. Holmes's Accident.—Described as probably "the most eminent botanist at his particular kind of work in the country," Mr. Edward Morell Holmes, F.L.S., Ph.C., F.R.H.S., curator of the museum of the Pharmaceutical Society of Great Britain, "Ruthven," Sevenoaks, Kent, brought an action for damages, on account of personal injury, against Alfred Dyson Laurie, "Homefield," Sevenoaks, Kent, in the King's Bench Division, on January 31, before Mr. Justice Salter. Mr. Colam, K.C., for the plaintiff, said that the accident occurred on January 31, 1921, when his client, in crossing a road at Sevenoaks, was knocked down by the defendant, who was driving a motor-car. Plaintiff had got one foot on the curbstone when the motor-car crushed his left leg against the stone. Prior to the accident he went about the country botanising and also attending at the premises of clients whom he advised as a consulting botanist. Since the accident he had been unable to continue that part of his work which involved more movement and activity. As a consequence he was claiming damages for loss of practice, as well as the special damages which were the direct result of the accident. The defence alleged contributory negligence. Plaintiff, in evidence supporting his claim, said he was seventy-nine years of age, and for nearly fifty years had been curator of the museum of the Pharmaceutical Society. He was a Fellow of the Royal Horticultural Society and Honorary Fellow of the Botanical Society. At the time of the accident he had a large connection as consulting botanist. He had always been considered a very active man. A van passed in front of him, and he thought he had plenty of time to cross the road before the defendant's car came up. When he crossed, the car was at a distance of some 230 ft. Certainly, in his opinion, the driver could not help seeing him cross the road. The wheel of the car struck him and broke his ankle. As a result of the accident he spent seventeen days in hospital, and had had to have his leg amputated at the knee. Afterwards, when walking about on crutches, one of the crutches slipped and he fell. His left shoulder and left hip were injured. His salary as curator had not been affected by the accident, but he had lost a large amount in consulting-fees. The amount he estimated at between £100 and £150 a year. In cross-examination, plaintiff said a good deal of his consulting work necessitated his moving about. Sometimes he might have to go to his own museum or to Kew to answer an inquiry. Should he fail in identifying any specimen, he would lose his client. He admitted, however, that most of the specimens submitted would be known to him. If that were not so, he might get the information required by writing to the Royal Horticultural Society; but as a matter of fact he gave more information to that

Society than the Society gave him. Prior to the accident such work took him to Kew once a week, but he could not do it now. He denied that those visits were made merely to satisfy his craving for knowledge. When the accident happened he was not more than 10 ft. from the curbstone, and the car was 230 ft. off. If those figures were correct, he admitted that the speed of the car would be about 120 miles an hour. Probably he had made some mistake in judging the two distances. Mr. Holmes denied that he was obscured in his crossing by the van passing. The van had passed before he crossed, and defendant must have had a clear view of him. Medical evidence was given in support of the plaintiff's claim for special damages. Mr. Alfred Dyson Laurie, the defendant, said in evidence that the plaintiff came from immediately behind the van, which had obscured witness's view of him. There was certainly no clear vision for 230 ft. down the road. Witness had seen the plaintiff after the accident, but the latter never suggested that witness was in any way to blame for the accident. His lordship, giving judgment, said he did not think the defendant was driving at excessive speed. He was a careful and experienced driver undoubtedly, and, although there was very little evidence in the case, he (his lordship) had come to the conclusion that the defendant ought to have known and observed that the plaintiff was crossing the road. That was the only negligence alleged, and it was the only negligence he could find. He had no doubt that the plaintiff had suffered a loss of earnings as a result of the accident. But that was a matter which, in his opinion, was insignificant compared with the physical pain and disadvantages resulting. Under the circumstances he would assess the damages at £1,000, and give judgment accordingly, with costs.

New Companies

P.C. means Private Company and R.O. Registered Office

T. L. CAMPBELL & CO., LTD. (P.C.)—Capital, £500. Objects : To carry on the business of chemists, druggists, drysalters, importers and manufacturers of and dealers in pharmaceutical preparations, etc. The first directors are : T. L. and J. A. Campbell, 46 High Street, Omagh. R.O. : 46 High Street, Omagh.

ATKINS' DRUG STORES, LTD. (P.C.)—Capital, £500. Objects : To take over the business of a chemist and druggist belonging to G. Atkins, of 215 Holloway Road, Islington, as "Atkins' Drug Stores." The first directors are : G. Atkins, 215 Holloway Road, Islington, N. 7, and R. E. Cooper, 215 Holloway Road, Islington, N. 7, chemist and druggist. R.O. : 215 Holloway Road, London, N.

NORRIS MANUFACTURING CO., LTD. (P.C.)—Capital, £500. Objects : To carry on the business of chemists, druggists, drysalters, manufacturers and factors of and dealers in drugs, medicines, foods, spices, surgical instruments, preservatives and dressings for leather, wood, rubber, and fabrics, cleaning solutions, grease removers, toilet requisites, etc. R.O. : 33 Cardigan Street, Birmingham.

STEAD & CO., LTD. (P.C.)—Capital, £1,500. Objects : To take over the business of a drug-store keeper, photographer, and photographic dealer carried on by Annie M. Huband at 23 Duke Street, Brighton, as "Stead & Co." The first directors are : C. J. and Mrs. A. M. Huband, 11 Clarence Square, Brighton; and F. W. Fowles, 8 Richmond Place, Brighton. R.O. : 23 Duke Street, Brighton.

F. S. HANKINSON'S PHARMACY, LTD. (P.C.)—Capital, £1,000. Objects : To take over the business of a drug-store carried on at 62 Brockley Rise, Honor Oak Park, S.E., and to carry on the same and the business of chemists, druggists, stationers, wine merchants, dealers in photographic stores, etc. The first directors are : F. S. Hankinson, 62 Brockley Rise, Honor Oak Park, S.E. 23; and A. G. A. Caithness, 144 Jamaica Road, Bermondsey, S.E., pharmacist. R.O. : 62 Brockley Rise, Honor Oak Park, London, S.E. 23.

Bankruptcy Reports

Re Samuel Vine, late of 2224 Harrow Road, London, N.W., present address unknown.—The receiving order in this case was made on January 13 at the London Bankruptcy Court, upon the petition of Mr. H. W. Buckingham, trustee of the bankruptcy estate of Joseph Vine, lately trading at the above address under the style of "The Toiet Supply Co." The first meeting of creditors was held on January 26, before Mr. Warren, Official Receiver, who reported that the only proof of debt received was one for £350 by the petitioning creditor. The debtor had not attended under the proceedings, and nothing was known regarding his present movements. The case was left in the hands of the Official Receiver to be wound up in bankruptcy.

Re William Graham, drug-store proprietor, 16 and 18 Gosforth Street and 88a High Street, Felling, Durham.—The public examination of this debtor was held recently at the County Court, Westgate Road, Newcastle-on-Tyne. The statement of affairs showed gross liabilities of £666 9s. 10d., of which £618 9s. 5d. was expected to rank for dividend, while there was a deficiency of £519 3s. 5d. Debtor attributed his failure to loss of trade at the shops when he was in a situation, and bad trade owing to the coal strike. It appeared that he started a drug business in 1900 in Gosforth, with stock and goodwill amounting to about £400. In 1904 he made an arrangement with his creditors, when his liabilities amounted to £240, and he paid 12s. 6d. in the £. Later he was in a situation, when the three businesses were managed by his wife until he left the situation in 1920. He then found that the liabilities exceeded the assets.

Re Pierre Marcotty, chemical merchant, 129 Cannon Street, London, E.C.—The creditors under this failure met on January 25, before Mr. F. T. Garton, Official Receiver, at the London Bankruptcy Court. According to the debtor's statements, he served with the Belgian Army, and, upon being demobilised in 1918, he came to London and commenced business as above, with a capital of £95. In November 1920 he converted the business into a limited company, of which he was appointed managing director at a salary of £750 per annum. He gave one of his creditors 200 shares in the concern as security for a debt due to the Distillers' Chemical Supply Company. In December last he severed his connection with the company and took a situation at a weekly salary of £8. The company is still in existence, but is doing no business. The debtor roughly estimates his liabilities at £1,700, of which £900 represents a judgment obtained by a creditor for breach of contract for the supply of oxalic acid, and he values his assets at £100, the failure being attributed to poor trade owing to the general labour conditions and heavy interest on loans. Replying to the Official Receiver, the debtor said he wanted to offer the creditors a composition of 5s. in the £, the money to be provided by relatives in France, to whom, by reason of the rate of exchange, it would mean approximately 10s. in the £. The Official Receiver closed the meeting with the remark that he would wind up the estate as trustee, but the debtor could bring in an offer at any time for the consideration of the creditors.

Re Irving Alexander Keene, (trading as the Keene Co.), manufacturing chemist, 52 Gray's Inn Road, London, W.C., and The Broadway, New York. This debtor, who is interested, as proprietor, in Keene's One Night Corn Cure, Keene's Cold Cure, and Keene's Razoline Paste, attended before Mr. Registrar Francke at the London Bankruptcy Court, on January 27, for public examination upon accounts showing total liabilities £11,168 (unsecured £10,818) and net assets valued at £2,046. Replying to Mr. F. T. Garton, Official Receiver, the debtor said he is an American citizen, and has not been naturalised in this country. About twenty-seven years ago he entered into partnership with his brother, and began business as the Razoline Manufacturing Co., afterwards changed into the Keene Co., as manufacturing chemists, at 335 The Broadway, New York. About two years later witness came to London and took premises

at 26 High Holborn, and added to the business that of chemical merchants. After fifteen years the London business was removed to 75 High Holborn, and in 1914 to 52 Gray's Inn Road. His brother retired from the partnership on November 1, 1917, witness undertaking to pay him a sum of £1,000 and an annuity of £325, and to assume all the liabilities and assets. Since that date the New York branch had been carried on under management. He duly paid his brother £1,000, but there were two years' annuities outstanding. He continued the business with success, but after November 1918 several creditors obtained judgment against him for breach of contract, and that was the origin of his troubles. In 1919 he was induced to apply for 2,500 shares in a public company by a person who was afterwards sentenced to five years' penal servitude for fraud; judgment was recovered against him last May in respect of a call of 15s. per share, but the bankruptcy trustee had rejected the company's proof of debt. Witness attributed his failure to losses incurred on a falling market and to depreciation in the value of stock, but chiefly to the before-mentioned liability on the shares. A balance-sheet dated March 1921 showed a deficiency of £4,256, but it included family liabilities for which no claim would be made. The business debts were always paid promptly; in fact, most of them were paid right up to the bankruptcy, and no fresh liabilities had been incurred since March last. The loss in trading from October 1919 to March 1921 was returned at £5,081, but that was a very bad period. He was always hoping that "to-morrow" business would improve, but "to-morrow" never came. In May 1920 witness contracted to purchase from Wild & Co. 100 tons of salt cake, which he sold to Adolph & Co. at a profit. The goods were shipped to Christiania, and even accepted by Adolph & Co., who, however, subsequently complained that they were not up to specification, and claimed damages. The matter went to arbitration, and the arbitrators failing to agree, an umpire was called in, who awarded £1,350 to Adolph & Co. Witness shipped the goods exactly as he received them, and he had in turn instituted an action against Wild & Co., which action was still pending. Mr. E. W. Hansell, for the trustee, also examined the debtor, and asked him to hand over to the trustee a written formula for his secret preparations known as Keene's One Night Corn Cure, Keene's Cold Cure, and Keene's Razoline Paste. The Debtor: At the moment I must respectfully decline to do so. His Honour: But you are bound by law to do so. Mr. Hansell: This question has already been decided in the Courts, and if you do not give the information to the trustee other proceedings will have to be taken. His Honour: The result of your refusal will be an application to the Bankruptcy Judge to commit you to prison for contempt of Court. The debtor said he quite understood the position, but his brother and he had agreed that their secret process must not be disclosed in any circumstances. He did not want to be obstructive or pugnacious, and very likely he would disclose it later; but he must first consult his brother. Mr. Garton said he understood that the brother was a rich man, and it was possible that he might make an offer to the creditors, in which event the necessity for disclosing the secret would disappear. The debtor added that another point for consideration was that the trustee was at present employing him at a salary of £5 a week to mix these preparations. That was not a fortune, but it was very useful to him just now, and he understood from the trustee that the moment he disclosed the secret he (debtor) would have "to quit." (Laughter.) More money was being made out of the business now than had been made for the last three years, and he was doing all he could to assist the trustee. His Honour adjourned the sitting till March 3, remarking that the debtor might have a good answer to the demand of the trustee, but he must make it to the Judge if and when an application was made to commit him for contempt of Court. The following are among the principal creditors: British Dyestuffs Corporation, Manchester, £333; Adolph & Co., London, £1,300; C. W. Field, Liverpool, £200; T. Morson & Sons, London, £21; Johnson & Sons, London, £10; A. Keene, London, £2,000; Parke, Davis & Co., London, £517.

British Pharmaceutical Conference

Research List

THE following is the revised Research List, 1921-22. In order to avoid duplication, the general secretaries trust that members will communicate to them their intention of working at any of the subjects mentioned; they also wish to direct attention to the fact that a special fund exists to defray expenses connected with research work. The Executive Committee will be glad to receive applications from members for grants from this fund.

Acetylsalicylates.—Which is the most suitable salt for pharmaceutical purposes? Do the salts possess any advantages over acetylsalicylic acid? (see "Year Book," 1908, 237; 1909, 109; 1911, 215; 1912, 227, 230; 1917, 117).

Animal Extracts.—An investigation of these is required, with a view to the introduction of standard products.

Apioi.—A formula for the preparation of a standard product is required (see Gen. Index and Y.B., 1905, 23; 1907, 187; 1909, 100; 1910, 142; 1913, 285; 1914, 125).

Assay Processes (Pharmacopœial).—Improved methods for the assay of several B.P. chemical products are needed.

Belladonna and allied Solanaceous Drugs.—It is desirable to reconsider the assaying of galenicals prepared from these drugs. A method is wanted for the determination of atropine and hyoscyamine to the exclusion of other chloroform-soluble bases.

Calx Sulphurata.—An examination of the processes of manufacture and the purity of commercial samples is needed.

Cannabis Indica.—The physical characters and therapeutic value of the official preparations are stated to be liable to considerable variation. An investigation is required to determine whether any chemical standard is possible, and, if not, whether physiological tests should be introduced. A report on the comparative values of the official Indian drug and those varieties produced in Goa, Africa, America, and Greece is desirable (see Gen. Index and Y.B., 1908, 40, 229; 1909, 43, 110, 240; 1910, 143; 1911, 163; 1912, 247, 266; 1913, 263, 264; 1915, 227; 1917, 218, 271; 1918, 229; 1919, 212).

Casein Foods.—A comparative examination of the so-called "Foods" or "Nerve Tonics" of the type represented by the combination of soluble casein and glycerophosphates, etc., would be useful (see Gen. Index and Y.B., 1915, 241; 1918, 369).

Casein (Soluble).—Details of improved processes for the preparation of soluble casein are required.

Cinchona, Liquid Extract of.—The B.P. process does not fully extract the total alkaloids from cinchona bark. An improved process is required and experiments are needed to ascertain the best solvent for the purpose (see Y.B., 1917, 387; 1921, 216).

Colouring Agents.—An investigation with a view to determining the most suitable colouring agents for syrups, such as syrup, glycerophosph. eo., and other galenicals, is needed.

Deterioration.—Some drugs, chemicals, and preparations are subject to deterioration upon storage. An investigation should be undertaken with the view to recording the extent to which such articles can be kept in a pharmacy in normal conditions and for a reasonable length of time and yet comply with the B.P. requirements (e.g., magnesia, ammonium carbonate).

Drugs.—The following drugs require further systematic chemical investigation: *Adonis vernalis* and *Adonis astrovitis* (see Gen. Index and Y.B., 1913, 132, 295; 1916, 3; 1918, 227), *Cereus Cactus grandiflorus* (see Gen. Index and Y.B., 1910, 209; 1911, 240; 1916, 287), *Cassia fistula* (see Y.B., 1921, 124), *Serenoa serrulata* (see Gen. Index and Y.B., 1917, 160, 344), *Arnica montana* (see Gen. Index and Y.B., 1904, 27), *Monsonia ovata*, *Monsonia biflora* (see Gen. Index), *Thuja occidentalis* (see Gen. Index and Y.B., 1911, 117; 1914, 45, 367), *Tanacetum vulgare* (see Gen. Index and Y.B., 1910, 173), *Senecio Jacobaea* (see Gen. Index and Y.B., 1912, 279; 1916, 226; 1918, 238; 1921, 279), *Achillea millefolium* (see Gen. Index and Y.B., 1908, 5; 1918, 62; 1921, 48), *Aletris farinosa* (see Gen. Index and Y.B., 1911, 220; 1915, 225; 1918, 228), *Rhamnus purshianus* (see Gen. Index and Y.B., 1916, 204, 270; 1917, 206, 208, 212; 1918, 190), *Polygonum Seneca* (see Gen. Index and Y.B., 1906, 217; 1909, 123; 1916, 381), *Tussilago Farfara*, *Chondodendron tomentosum* (see Gen. Index and Y.B., 1907, 120; 1912, 32; 1913, 27; 1916, 367; 1918, 231).

Ergot.—A reinvestigation of the pharmacy of this drug in the light of recent chemical work is required, and a method of determining the activity of the galenical preparations (see Gen. Index and Y.B., 1914, 8; 1915, 234; 1921, 11, 135, 385).

Ferments.—The action of ferments in inducing changes in galenical preparations might be studied.

Formulae.—Improved formulæ are required for the administration of nauseous drugs (e.g., paraldehyde, maleic acid).

Galenicals.—Investigation is required of the changes in the strength of galenicals, etc., during preparation and on keeping, which may render the original formulæ an unfair criterion of the finished product, e.g., loss of ammonia in filtering tinct. quininæ ammoniata; loss of formaldehyde from the tablets; loss of iodine in making syrup. ferri iodidi.

Galenicals.—The B.P. 1914 has introduced in a few cases tests for galenical preparations (e.g., acetum siccæ). An investigation is needed with a view to ascertaining how far the specific gravity and other physical constants may be considered to be a fair criterion that a galenical has been made in accordance with the B.P. directions.

Hydrargyrum cum Creta.—The extent to which mercury volatilises from wrapped powders of hydrarg. c. creta requires investigation.

Iron, Determination of.—A quick method is wanted for the determination of iron in syrup, ferri phosph., syrup, ferri phosph. eo., syrup, ferri phosph. c. quinin. et strych., and syrup. hypophosph. co. (see Y.B., 1914, 393; 1921, 102).

Jalap, Brazilian.—A microscopical investigation of this root is required, with the object of enabling the admixture of it with powdered jalap to be detected. A test is also required for detecting the addition of its resin to true jalap resin (see Y.B., 1916, 255; 1919, 217).

Oil of Soya Bean.—Can this be utilised more widely in pharmacy (see Y.B., 1910, 104; 1912, 120)?

Opium, Extract of.—To what is the loss of morphine due in making this extract? Is it constant with different lots of opium (see Y.B., 1910, 28; 1913, 359, 360; 1914, 17; 1917, 11; 1921, 226)?

Opium, Assay of Extract of.—The B.P. process for the estimation of morphine in extract. opii sicc., B.P. 1914, which may contain calcium phosphate, is not very satisfactory. An improved process would be useful.

Santonin.—Analyses are required showing the percentage of santonin in Colonial and Indian species of *Artemisia* allied to *Artemisia maritima* (see Gen. Index and Y.B., 1913, 293, 294; 1914, 138, 139; 1921, 128, 142). (Already undertaken.)

Saponins.—A simple and accurate method of determining saponins in drugs is required (see Gen. Index and Y.B., 1904, 78, 87; 1906, 71; 1909, 5, 71, 80; 1910, 115; 1911, 117, 124, 126; 1912, 131; 1913, 142, 145, 146, 147; 1914, 99; 1915, 115; 1916, 152; 1917, 90, 91; 1920, 446).

Solvents.—Experiments are needed with a view to extending the use of solvents such as acetone, carbon tetrachloride, dichlorethylene, petroleum ether, amyl acetate, etc., in pharmacy (see Y.B., 1919, 278).

Straphanthus.—An examination of the published methods of separating the different active principles obtained from the official seeds is needed with a view to recommending a standard process. The seeds in commerce are frequently mixed. Further information is required as to the active principles they severally contain (see Gen. Index and Y.B., 1904, 244; 1905, 202, 370; 1906, 74, 110, 249; 1910, 220; 1911, 125; 1912, 131, 280, 337; 1913, 134, 147; 1915, 107; 1917, 284; 1919, 226, 228, 344).

Tannin.—A ready and tolerably accurate method for the determination of the tannin in various astringent drugs is required (see Gen. Index and Y.B., 1906, 86; 1907, 158; 1912, 312, 314; 1913, 122, 187, 214; 1916, 208).

Taraxacum Root.—The investigation of fresh drugs such as this by Bourquelot's method for the detection and isolation of easily hydrolyzed glucosides is required (see Y.B., 1907, 58; 1914, 319).

Tinctures.—Experiments are needed to determine the best method for the prevention of the occasional gelatinisation of tinctures, with special reference to tinct. card. co., B.P. 1914.

Valerian Root.—Chemical investigation of the fresh root by Bourquelot's method is required (see Y.B., 1907, 58; 1914, 319).

Yohimbi Bark.—A process is required for the determination of yohimbine (see Y.B., 1920, 212; 1921, 24).

THE BOHEMIAN GLASS INDUSTRY. according to a recent inquiry, has increased its output considerably. Compared with the pre-war figures, the following increase has taken place: Hollow and pressed glassware, 40,000 tons (20 per cent.); plate-glass, 600,000 tons (40 per cent.); mirror glass, 9,000 tons (17 per cent.); while the output of bottles was higher by 25,000,000 (15 per cent.). However, this output has by far exceeded the demand, and the glass industry is feeling the effects of having large unsold stocks.

Festivities

Whist-drive at Edinburgh

DESPITE the prevalence of influenza, upwards of seventy members and friends of the Edinburgh Chemists' Assistants' and Apprentices' Association assembled at Windsor House on January 25 (Burns' night) for what proved an enjoyable whist-drive and dance. At the close of the whist-drive the prizes were presented by Mr. J. Rutherford Hill as follows : *Ladies* : (1) Miss Dallas, (2) Miss Hay; *Gentlemen* : (1) Miss Wilson, (2) Mr. Clapperton. Thereafter dancing was carried on till 1.30 a.m. Mr. Hamilton B. Young was an efficient M.C., and during an interval pianoforte solos were given by Mr. James Johnston.

Lancaster Pharmacists' Whist-drive

An enjoyable social gathering was held on January 25, when between sixty and seventy guests assembled, including the President (Mr. R. T. Simpson), Mr. H. Troughton (ex-president), and Mr. A. Bätz (treasurer). Regret was expressed at the absence of Mr. J. B. Shattock through indisposition. The whist-drive was conducted by Mr. A. H. Robertson (Vince & Co.), the prizes being distributed by Mr. Simpson to Misses Capper and Shattock and Messrs. R. Thompson, G. E. Whineray, and Hudson. The musical items were contributed by Mr. J. Richardson, Miss Stalker, Miss Cathcart, Mr. A. H. Robertson, Mrs. Lee, and Mr. Burrows; Mr. W. Teasdale was the accompanist.

Bradford Chemists' Ladies' Evening

THE Bradford Pharmacists' Association, on January 18, spent a happy evening of whist, music, and dancing at Halford's Café, when the members took part in making a success of the annual ladies' evening. The affair was held under the presidency of Mr. L. B. Sutcliffe and in accordance with arrangements by the Entertainment Committee and the joint hon. secretaries (Messrs. A. T. Bailes and N. Lander). Fifty-four persons were present. Whist occupied the first half of the evening, followed by refreshments and dancing and music. The prize-winners were Miss Field and Mrs. C. Robinson; Mr. Pimlott, Mr. Stevens, and Mr. Huggins. The donors of the prizes were Goodall, Backhouse & Co. (Leeds), E. & A. Atkinson (London), Raimes & Co. (York), Chemists' Sundries, Ltd. (Manchester), and the President of the Association. Miss Gregory, Mr. Stevens, and Mr. Bailes rendered songs, with Mr. Bramley at the piano; and Miss Calvert gave musical monologues.

Londonderry C. and D. Dinner

THE first annual dinner under the auspices of the Londonderry Chemists' and Druggists' Association was held in the Melville Hotel, Foyle Street, on January 19, when a pleasant evening was spent. Mr. James Glendinning, Ph.C., the retiring chairman of the Association, presided over a large attendance of the members, and in his opening address reviewed the work of the Association since its inception in December, 1920. An elaborate toast list was presented, including "The Pharmaceutical Society of Ireland," proposed by Mr. Robert Watson, R.D., and responded to by the chairman; "The Incoming Officers," proposed by Mr. Harry Smith, R.D., and responded to by Mr. W. G. Mitchell, Ph.C. (the incoming chairman); "The Retiring Chairman," proposed by Mr. John Maxwell, Ph.C., and appropriately acknowledged; "The Visitors," proposed by Mr. Maxwell and responded to by Mr. Marshall Kennedy, L.D.S., and Mr. T. C. Sweeny; and "The Artists," proposed by Mr. Hubert Sweeny, Ph.C., and responded to by Mr. J. T. Franklin, A.R.C.O. Cordial thanks were tendered the hon. secretary (Mr. Hubert Sweeny) and the other outgoing officers for their work for the Association during the year. During the evening an enjoyable musical programme was contributed by Mr. J. Breakey, Ph.C. (Belfast), Mr. H. L. Craig, R.D., Mr. Hubert Sweeny, and a number of friends.

Eastbourne Pharmacists' Dinner

THE annual dinner of the Eastbourne Pharmacists' Association was held on January 18. The President gave the toast of "The Pharmaceutical Society," and emphasised the importance in the Qualifying examination of more stringent requirements in practical dispensing. Sir William Glyn-Jones pointed out the difficulty the young qualified men of to-day had to face in consequence of absence during the war, and then gave a brief summary of the branch organisation which was to be adopted. At the close of Sir William's speech the President called on him to present their secretary (Mr. David Marchant) with a token of their appreciation of his services as secretary for the past ten years. The presentation took the form of a beautiful antique silver salver (over 100 years old), with the following inscription : "Presented to David Marchant, Esq., by the members of the Eastbourne Pharmacists' Association, in appreciation of his long and valued service as secretary. January 18, 1922." Mr. Marchant suitably replied. Mr. Edgar Jones responded for kindred associations, and Mr. Yates for the South-Eastern Federation of Pharmaceutical Associations. There was an excellent musical programme, a special feature being songs by Miss Irene Browne (the President's daughter), which were much appreciated.

Ealing Pharmacists' Dinner

AT last year's annual dinner of the Ealing and District Pharmacists' Association, held locally, the room was packed to overflowing, and the then secretary (Mr. T. Marns) invited all present to come to the next one. The occasion and invitation seem to have been appreciated, for, so far as attendance was concerned, history repeated itself at the Connaught Rooms, London, W.C., on February 1. The guests, about 200, including Mr. E. T. Neathercoat, President of the Pharmaceutical Society, Messrs. A. R. Keith, A. R. Melhuish, P. F. Rowsell (Mayor of Exeter), H. Skinner, H. Wolff (members of the Pharmaceutical Society's Council), Sir William Glyn-Jones, Messrs. E. A. Atkins (London, S.W.), W. E. D. Shirreff, H. S. Watson, J. P. Ellerington, C. A. Noble (London, W.), and representatives of several well-known houses were received by the President (Mr. T. Marns) and Mrs. Marns. Ladies were present in strong force, and during the evening each one was presented with a silver pencil-case as a souvenir of the occasion. The toast "The Pharmaceutical Society" was proposed by Mr. H. L. Ironmonger, who spoke of the work carried on by the Society, laying stress on the Benevolent Fund. In his reply, Mr. Neathercoat congratulated the Association on the progress they had made during the last twelve months, as shown, among other ways, by the venue of their dinner this year as compared with last, but added a word of caution regarding "coming up West." (Laughter.) The Society, he said, appreciated the loyalty of the Associations to the parent body and the support given by the Ealing Association to the Benevolent Fund. In conclusion, he paid a tribute to the energy and work of Mr. Marns. The next toast, that of "The Ealing and District Pharmacists' Association," coupled with the name of its President, was proposed by Mr. John Humphrey and drunk with musical honours. Mr. Humphrey mentioned that this was the third annual dinner of the Association, and on each occasion the honour of proposing this toast had fallen to him. The President (who received an ovation on rising to reply), after a reference to the Association's first dinner, at which only forty were present, said he would like to see the office of President go round, believing it to be for the good of an Association that it should be so. He had held one office or another for seven years. Mr. Arnold Roberts (Acton), in proposing "The Ladies," referred to how much such functions as this were improved by their presence. Mrs. H. S. Watson briefly replied. The speeches were interspersed with an attractive musical programme contributed by, among others, Miss Sybille Stenning (daughter of Mr. H. A. Irwin, Ph.C.), Messrs. A. H. Millner, Peter Irvine, Ph.C., and Lyell Johnston, who has forsaken pharmacy for the stage.

History in Showcases

Wellcome Museum Acquisitions

ON the analogy of sermons in stones, chemists who visit the Wellcome Historical Medical Museum in Wigmore Street, London, W. 1, may, if they are so inclined, find precepts in the pomanders and other fascinating things that have just been assembled by the curator, Mr. C. J. S. Thompson, M.B.E., for the purpose of illustrating the history of chemistry. Arranged largely for the instruction of students, the section will undoubtedly attract the attention of the forthcoming International Congress of the History of Medicine and of a still wider circle. To attempt to convey within the walls of a single gallery an idea of the rise and progress of chemistry is a bold undertaking; but the visitor can hardly fail to discover that the subject has been admirably outlined, without sacrificing accuracy to display or making history a dull sequence of records.

THE POMANDER CASE

In a central showcase (seen in our illustration) is a remarkable and probably unique collection of pomanders, vinaigrettes, and smelling-bottles. Some day, no doubt, the history of the pomander will be written as it deserves to be written; meanwhile, the rise and development of this quaint manifestation of popular preventive medicine



lie before us in eloquent symbols. A delightful Greek specimen in gold is attributed to 200 B.C.; and some of the Roman examples still bear traces of the aromatic substances with which they were filled. In thirteenth-century Latin we find the form "pomum ambre"; by the fifteenth century this had become Anglicised as pomamber or pomander, and larger and more globular forms of receptacle had made their appearance. Some of those in the Wellcome collection are of exquisite design in metal-work or in crystal, and contain several compartments. The successor of the pomander was the vinaigrette, which is probably still in use to a limited extent. One remarkable specimen in the collection consists of a spy-glass with a minute vinaigrette half-way along the handle, and the display is rounded off by a present-day stoneware flask from Bond Street, holding about an ounce and sold full of essential oil. Bond Street, it must be confessed, cuts a poor figure in such company in the matter of design. The double-ended smelling-bottles popular two generations ago are present in great force, the ordinary kind being supplemented by cruciform and other varieties; and in this connection it may be asked what was the original, if there was one, of the smelling-bottle that figured in the *Pickwick* trial—a bottle, if memory serves, holding "about a quarter of a pint" of smelling-salts. Dickens, no doubt, was capable of inventing such a bottle by way of emphasising

the unfashionable appearance of its owner; but it seems probable that so painstaking an observer as he had in mind something actually seen.

PORTRAITS AND RELICS

Among the numerous portraits in this well-arranged gallery there are some of exceptional interest. The chief of these, perhaps, is one of John Mayow, F.R.S., an Oxford medical man who died in 1679. Mayow's reputation, which has undergone various fluctuations, seems to be in the ascendant again: it is claimed by his admirers that in "De sal-nitro et spiritu nitro-aereo" and other monographs he to a great extent anticipated the work of Priestley and Lavoisier in connection with oxygen. He was, at any rate, a man of distinguished intellect, a Doctor of Civil Law, and an investigator some of whose treatises were translated into French, Dutch and German. From Wood's "Athenæ Oxonienses" we learn that he "paid his last debt to nature in an apothecary's house, bearing the sign of the Anchor in York Street near Covent Garden. . . ." Close by York Street lived, then or soon afterwards, Ambrose Godfrey, chemist, a manuscript book of whose recipes, written between 1730 and 1745, lies open in one of the cases in the section. Of personal relics of this kind there are many. Books belonging to Robert Boyle and the Boyle family, a spectrum drawing and an auto-radiograph by the late Sir William Crookes (believed to be the only copies), an electric pile given by Volta to Faraday, Cavendish's audiometer, and manuscripts in French and other languages, from the fifteenth century onwards, are among things over which one is tempted to linger.

APPARATUS

Some of the apparatus, too, has this personal interest—for example, a porcelain retort once owned by Joseph Black. As recently as last year (*C. & D.*, I., 1921, p. 880) we published an article illustrating alchemical processes; and the apparatus of the seventeenth and eighteenth centuries was described in the *C. & D.*, I., 1904, p. 182. Most of it is well represented in the section by means of actual specimens or of models. A genuine alembic (somewhat of a rarity), two of the pewter stills used in the eighteenth century for distilling aromatic waters, and an aqua vite still of the sixteenth century are among the more prominent instances of obsolete apparatus worth seeing. In addition there are matrasses, a set of aludels, cucurbits, and other curios the very names of which tell of a past age. It should be added that a fine collection of specimens of chemicals (including alkaloids) has been brought together, and that the scholastic element is sustained by panels and diagrams giving names, dates, and other facts. Alchemical symbols painted in white on a black frieze combine erudition with artistry in a striking degree.

ASCOTT'S PHARMACIES, LTD., chemists, London, N.W., are opening a branch at 426 Catherine Road, Forest Gate, E.

ATTEMPTED BOYCOTT OF BRITISH PRODUCTS.—A notice has been sent to Egyptian pharmacies by an association of Egyptian doctors stating that they will not patronise establishments which retail British chemicals, and asking pharmacists to refrain from importing English medicines.

MORE SERUMS USED.—Only two serums are included in the Belgian Pharmacopœia—diphtheria antitoxin and antitetanus serum—both of which must be stocked by Belgian pharmacists. However, the increasing use which is being made of other non-official serums is giving rise to some difficulties, since doctors prescribe these without previous intimation to the pharmacist. The suggestion has now been made that the Nationale Pharmaceutique should take in hand the question of providing for a ready supply of all such serums, stocks to be held by the various syndicates and co-operative buying associations, while the exchange of date-expired products would be effected by the central organisation. At the same time all medical men would be informed that serums could now be supplied without undue delay by the pharmacists.



The Section contains formulas for most of the officinal preparations which in the Price List are referred to their sources in works of reference. It is convenient to bring together the formulas taken as the basis of certain of the prices given in the list.

Concluded from index folio 102

Sachet Powder

Millefleurs

P.F. II.

Powdered orris-root	lb. ij.
Ground lavender-flowers	lb. j.
Ground cassie-flowers	lb. j.
Ground rose-flowers	lb. j.
Ground sandalwood	3vij.
Ground Tonka beans	3iv.
Ground benzoin	3iv.
Ground vanilla	3ijj.
Ground cinnamon	3ij.
Ground cloves	3ij.
Essence of musk	3ss.
Essence of civet	3ss.
Oil of bergamot	3ss.
Oil of rose-geranium	3ss.
Oil of patchouli	nxx.
Mix.	

Sachet Powder (sec.)

P.F.

Bran	... ...	3vij.
Powdered orris-root	...	3j.
Mix. To each ounce add 3j. floral essence of the desired odour.		

Sal Acetos. Puv.

(Salt of Sorrel)

P.F.

Potass. binoxal.	
Potass. bitart.	Partes aequales

Sal Limonis

P.F.

I.

Potass. bitart.	... ...	3xvj.
Potass. binoxalat.	... ...	3x.
Ol. limonis	... ...	gtt. x.
II.		
(Non-poisonous)		
Potass. bitart.	... ...	3xij.
Pulv. acid. citric.	... ...	3xij.
Ol. bergamot.	... ...	gtt. x.

Saline, Effervescent

P.F. III.

Tartaric acid	... ...	3ix.
Bicarbonate of sodium	... ...	3x.
Chlorate of potassium	... ...	3ij.
Dried sulphate of magnesium	... ...	3ijj.
Sugar	... ...	3ijj. or a sufficiency
Mix.		

Sapo Arsenicalis (Taxidermists')

P.F. I.

Powdered camphor	... ...	3vj.
White arsenic	... ...	3iv.
Slaked lime	... ...	3iv.
Carbonate of sodium	... ...	3xij.
Soft soap	... ...	3iv.
Water	... ...	a sufficiency
Mix in the above order to make a stiff paste.		

Sherbet

P.F. I.

Pulv. sacch. alb.	... ...	lb. iv.
Pulv. acid. tart.	... ...	lb. ij.
Pulv. sodii bicarb.	... ...	lb. ij.
Ol. limonis	... ...	3ij.

M.

Sp. Ether. Nit. Substitute

P.F.

Sodium nitrite	... ...	3ij.
Old sweet spirit of nitre	... ...	3ij.
Glycerin	... ...	3ij.
Water	... ...	3xvj.

Mix and dissolve.

Sulphur Wash

P.F. (1-50)

For plant mites

Sulphur	... ...	3 lb.
Lime	... ...	3 lb.
Water	... ...	6 gals.

Boil until reduced to 2 gals.

Syr. Bromoformi

(Martindale)

Bromoform	... ...	3ij.
Alcohol (90-per-cent.)	... ...	8oz.
Syrup	... ...	16oz.

Tr. Myrrh. Co. (Vet.)

P.F.

Aloes	... ...	1 oz.
Myrrh	... ...	2 oz.
Proof spirit	... ...	20 oz.

Tr. Myrrh. et Boracis

P.F. II.

Boracis	... ...	3j.
Glycerini	... ...	3j.
Aq.	... ...	3v.
Tr. myrrhae ad	... ...	Oij.

M.S.A.

P.F. IV.

Myrrh, elect. cont.	... ...	3j.
Tr. Iramericæ	... ...	3x.
Sodii baborat.	... ...	3iss.
Glycerini	... ...	3ss.
Aq. coloniensis	... ...	3x.

Macerate fourteen days and filter.

Tr. Opil Crocata

Opium	... ...	1 oz.
Cinnamon bark (bruised)	... ...	8 <i>1</i> / ₂ grs.
Cloves (bruised)	... ...	8 <i>1</i> / ₂ grs.
Saffron	... ...	1 oz.
Detannated sherry to	... ...	20 fl. oz.

Macerate the solids with 20 oz. of the sherry for seven days in a closed vessel with occasional agitation; then filter and add sufficient sherry to make up to the required volume.

Toilet Vinegar

P.F. IV.

Acid. acetic.	... ...	3vij.
Ol. rosmarinii	... ...	3j.
Ol. caryophylli	... ...	3j.
Ol. lavandulae	... ...	3j.
Ol. geranii	... ...	3j.
Camphor	... ...	3j.
Tr. iridis	... ...	3v.
Ess. vanillæ	... ...	3ij.
Spt. rectificat. ad	... ...	Oij.

M.

Toothache-tincture

P.F. 5.

Mastic	... ...	3iv.
Tannin	... ...	3ij.
Camphor	... ...	3iv.
Tincture of myrrh	... ...	3iv.
Chloroform	... ...	3iv.
Tincture of opium	... ...	3iv.
Rectified spirit	... ...	3ij.

Macerate for a week and filter.

Tooth-pastes

P.F.

Precipitated chalk	... ...	3v.
Powdered white soap	... ...	3j.
Salicylate of sodium	... ...	gr. xx.
Oil of rose-geranium	... ...	3iv.
Oil of wintergreen	... ...	3ij.
Solution of carmine	... ...	3ij.
Glycerin (4)	... ...	a sufficiency
Water (1)	... ...

Areca

P.F. I.

Crete precipitat.	... ...	3xvj.
Terre rose	... ...	3v.
Pulv. areca	... ...	3ij.
Pulv. sacchar. alb.	... ...	3ij.
Ol. caryophyll.	... ...	3ss.
Ol. cinnamom.	... ...	nxx.
Glycerini	... ...	3ij.
Aq. rose	... ...	q.s.

Mix the powders, sift through a No. 140 sieve, sprinkle on the perfumes, and sift through a No. 40 sieve; then mass.

Carbolic

P.F. II.

Precipitated silica	... ...	3vj.
Carmine	... ...	3j.
Powdered orris	... ...	3j.
Carbolic acid	... ...	3ss.
Oil of wintergreen	... ...	3vij.
Oil of peppermint	... ...	n.v.
Saccharin	... ...	gr. ij.
Glycerin	... ...	3vj.
Rose-water	... ...	a sufficiency

Cherry
P.F. I.

Pulv. iridis flor.	... ...	3j.
Pulv. cocci cacti	... ...	3j.
Pulv. alum. ust.	... ...	3ij.
Pulv. potass. bitart.	... ...	3ss.
Pulv. crete rub.	... ...	3ij.
Pulv. oss. sepiæ	... ...	3j.

Mix the powders intimately and add 4 oz. of red-currant jelly, bringing the paste down to a suitable consistency with syrup of mulberry. The following perfume may be used:

Ol. cassiae	... ...	mv.
Ol. ros. geran.	... ...	mv.
Ol. caryoph.	... ...	miij.

Red Rose
P.F.

Cretæ præcipitat.	... ...	3iv.
Magnes. carb. pond.	... ...	3iv.
Pulv. iridis	... ...	3iv.
Pulv. pumicis	... ...	3iv.
Pulv. oss. sepiæ	... ...	3iv.
Glycerini	... ...	3iij.
Mellis	... ...	3viij.
Aq. rosa	... ...	3iv.
Carminæ	... ...	3ij.
Liq. ammon.	... ...	3ss.

Rub the carmine and ammonia together in a mortar, then add the liquids in the order given, and finally the powders, and perfume with otto rosa 3j. and ol. ros. geranii 3ss.

Thymol

P.F.

Thymol	... ...	3j.
Rectified spirit	... ...	3j.
Precipitated chalk	... ...	3xxv.
Carmine solution	... ...	mxv.

Dissolve the thymol in the spirit, add this and the carmine to the chalk, triturate well, and sift; then mass with Tooth-paste excipient 3xvii.

Tooth-paste Excipient
(Kirchgessner's)

Gelatin cut small	... ...	3iij.
Moist Castile soap	... ...	3vj.
Saccharin	... ...	3iiss.
Menthol	... ...	3iiss.
Eucalyptus oil	... ...	3j.
Oil of wintergreen	... ...	3ij.
Rectified spirit	... ...	3j.
Glycerin	... ...	3xiiss.
Water	... ...	3xiiss.

Soak the gelatin in half the water overnight and the saccharin and soap in the rest. Melt each next morning by gentle heat and mix. Dissolve the menthol and oils in the spirit and mix with the glycerin, which incorporate with the soap-and-gelatin mixture. Set aside in a covered pot for use after a week.

To make tooth-paste for tubes, use 6 parts of the above to 5 parts of precipitated chalk (or other suitable unscented powder); for pots, 36 parts to 50 parts of powder.

Tooth-powder—Antacid

P.F. I.

Pulv. sapon. alb.	... ...	3j.
Sodii bicarb.	... ...	3ss.
Cretæ præp.	... ...	3v.
Cretæ præcip.	... ...	3xj.
Carminæ	... ...	gr. vij.
Ol. caryoph.	... ...	mxv.
Otto rosa	... ...	mxv.
M.	...	

Tooth-powder—Quinine
P.F.

Cretæ præcip.	... ...	3xxx.
Pulv. myrrh.	... ...	3j.
Pulv. cinchonæ	... ...	3j.
Quinine sulphat.	... ...	3j.
Ol. geranii	... ...	3ss.

M.

THE CHEMIST AND DRUGGIST

Tooth-powder—Antiseptic

P.F. I.

Pulv. rad. irid. flor.	... ...	3ij.
Pulv. glycyrrh. decoct.	... ...	3ij.
Pulv. sapon. hispan. recent.	... ...	3vj.
Cretæ præcipitat.	... ...	3j.
Acid. boric.	... ...	3ij.
Acid. benzoic.	... ...	3j.
Magnes. carb. pond. ad.	... ...	3iv.
Ol. eucalypti	... ...	mx.
Ol. rosa virgin.	... ...	mv.
Ol. menth. pip. Ang.	... ...	mv.
Ol. limonis	... ...	mx.

Mix in the above order and pass through a fine drum sieve. If desired coloured, add 20 gr. of carmine.

Tooth-powder—Aromatic

P.F.

Magnes. carbon. pond.	... ...	3vij.
Cretæ præcip.	... ...	3xxiv.
Pulv. iridis flor.	... ...	3iv.
Pulv. sapon. hispan. recent.	... ...	3iv.
Carmin.	... ...	gr. xx.
Ol. caryoph.	... ...	3ij.
Ol. cinnamon.	... ...	3j.
Ol. origani pallid.	... ...	ml.
Ol. rosa geranii	... ...	3j.
Ol. rosa virgin.	... ...	3j.
Ess. moschi	... ...	3j.

Mix well and pass through a fine drum sieve several times.

Tooth-powder—Carbolic

P.F. I.

Kaolin	... ...	3xij.
Kieselguhr	... ...	3iv.
Carbolic acid	... ...	3ss.
Powdered quillaia extract	... ...	3ij.
Eosin	... ...	gr. iij.
Otto of rose	... ...	mx.

Dissolve the eosin in water 3ij., and triturate with 2 oz. of kaolin until well mixed. Mix the carbolic acid and otto with an ounce of kieselguhr by trituration, add to the coloured kaolin, also add the rest of the powders, triturate, and sift three times.

Tooth-powder—Rhatany

P.F.

Pulv. iridis flor.	... ...	3vj.
Pulv. oss. sepiæ	... ...	3vj.
Pulv. crete præcip.	... ...	3xxiv.
Pulv. Krameræ	... ...	3ix.
Magnes. carb. pond.	... ...	3vj.
Carmin.	... ...	3iss.
Pulv. boracis	... ...	3ij.
Pulv. antimonalis	... ...	3vj.
Ol. rose virgin.	... ...	gtt. xxiv.
Ol. neroli	... ...	gtt. xvij.
Ol. cedrat.	... ...	gtt. viii.
Ol. cinnamon.	... ...	gtt. viii.
Ol. caryoph.	... ...	gtt. viii.
Ol. lavand. ang.	... ...	gtt. iv.
Ol. pimentæ	... ...	gtt. iv.
Tr. myrrhae	... ...	3vj.
Extrait violæ	... ...	3vj.

Mix well and pass through a fine drum sieve twenty times.

Tooth-powder—Rose

P.F.

Cretæ præcip.	... ...	3xxiv.
Pulv. sacch. alb.	... ...	3vij.
Ol. rosa geranii	... ...	3ss.
Misce et colora.	...	

Tooth-powder—Thymol

P.F. II.

Thymol.	... ...	3ss.
Spt. rectificat.	... ...	3ij.
Cretæ præcip.	... ...	lb. iij.
Mag. carb. pond.	... ...	3iss.
Pulv. iridis	... ...	3v.
Pulv. sapon. alb.	... ...	3xij.
Ol. menthae pip.	... ...	3j.
Ol. caryoph.	... ...	3ss.
Ol. limon.	... ...	3ss.
Ol. eucalypti	... ...	3ss.

Tooth-powder—Saponaceous

P.F. I.

Pulv. sapon. alb.	... ...	3j.
Pulv. iridis	... ...	3ij.
Crete præcip.	... ...	3v.
Ol. geranii	... ...	mx.

Triturate well and sift five times.
University Cream
(C. & D., 1919, 826).

Beef suet	... ...	40 oz.
Olive oil	... ...	5 oz.
Syrup	... ...	25 oz.
Benzoic acid	... ...	35 gr.
Dec. Irish moss	... ...	70 oz.
Water to	... ...	1 gal.

The oil is added to the melted suet and the benzoic acid dissolved in the mixture. Heat the decoction to about 60° and place in emulsifier with the fats; finally add the syrup and water.

Vapores

P.F.

Each for single inhalation added to a pint of water at 140° F.

Acetic acid 3j., glacial acetic acid 3j.
Aldehyde mx., water to 3j.

Amyl nitrite mij., S.V.R. to 3j.
Benzoic acid gr. iij., kaolin gr. xij., water 3ss. Mix and add tincture tolu mxviii., water to 3j.

Benzoïn: tr. benzoïn. co. 3j.

Camphor: spt. camph. mxv., S.V.R. mx.

Carbolic acid (liquefied) mx.

Chloroform 3ss., S.V.R. 3ss.

Creosote mx., light magnesium carbonate gr. iiss.

Cubeb oil mv., light magnesium carbonate gr. iiss.

Eucalyptus oil miiss., light magnesium carbonate gr. 14.

Iodine tincture 3j.

Pine oil: ol. pin. sylv. mv., mag. carb. lev. gr. iiss.

Sulphurous acid 3j.

Terebene mv., light magnesium carbonate gr. iiss.

Thymol gr. 2, S.V.R. m7¹, light magnesium carbonate gr. ss.

Violet Powder

P.F. I.

Powdered starch	... ...	lb. vi.
Powdered orris	... ...	lb. j.
Oil of bergamot	... ...	3ij.
Oil of neroli	... ...	mx.

Mix and sift three times.

P.F. IV.

Powdered orris	... ...	3iv.
Starch, in fine powder	... ...	lb. iv.
Otto of rose	... ...	mx.
Essence of musk	... ...	5ss.
Oil of bergamot	... ...	mv.

Mix.

White Oils

V.C.P.

Vitell.	... ...	xij.
Sap. moll.	... ...	3vj.
Ol. tereb.	... ...	3xx.
Liq. amm. fort.	... ...	3v.
Ac. aceticæ	... ...	3iv.
Camphoræ	... ...	3v.
Spirit.	... ...	3vij.
Ol. succini rect.	... ...	3iv.
Aq. ad	... ...	Oiv.

Wound Stone

V.C.P.

Iron sulphate	... ...	lb. ij.
Alum	... ...	lb. ij.
Zinc sulphate	... ...	3iv.
Copper sulphate	... ...	3iv.
Armenian bole enough to colour it.	...	

Powder the ingredients. Mix and sift.



FILING COVERS.

The convenience of having a filing cover for the preservation of the Retail Price List will be appreciated by all users of the list. The filing cover which we have had made specially for the purpose is of stout cardboard with cords, so that the list can be firmly held in the cover. We can supply these filing covers at 1s. each, post free. Postal order or stamps should accompany orders.

CHANGES IN PRICES

We shall be glad if users will make the following alterations in the January list :

Ac. citric. : Cost—3s. 1d. lb. Sell—4s. 8d. lb.; 1s. 4d. 4 oz.; $\frac{1}{2}$ d. oz.

Ac. citric. pulv. : Cost—3s. 2d. lb. Sell—4s. 8d. lb.; 1s. 4d. 4 oz.; $\frac{1}{2}$ d. oz.

Ac. tart. pulv. : Cost—2s. 6d. lb. Sell—3s. 9d. lb.; 1s. 1d. 4 oz.; 4d. oz.

Aloe Cap. : Cost—10d. lb. Sell—1s. 3d. lb.; $\frac{1}{2}$ d. 4 oz.; 2d. oz.

Aloe Cap. pulv. : Cost—1s. 7d. lb. Sell—2s. 5d. lb.; $\frac{1}{2}$ d. 4 oz.; $\frac{1}{2}$ d. oz.

Aloe Soc. pulv. : Cost—7s. 4d. lb. Sell—3s. 2d. 4 oz.; 10d. oz.; $\frac{1}{2}$ d. dr.

Alopochen pdr. (A. & H.), B, F : Cost—2s. 8d. gm. Sell— $\frac{1}{2}$ d. gr.

Ammon. benz. synth. : Cost—7s. 8d. lb. Sell—3s. 3d. 4 oz.; 11d. oz.; 2d. dr.

Argent. nit. cryst. : Cost—3s. 2d. oz. Sell—11d. dr.; 5d. 20 gr.

Balsam. tolut. : Cost—3s. 4d. lb. Sell—1s. 5d. 4 oz.; $\frac{1}{2}$ d. oz.

Bismuth. carb. : Cost—15s. 6d. lb. Sell—6s. 9d. 4 oz.; 1s. 10d. oz.; 4d. dr.

Bismuth. citras : Cost—1s. 5d. 6oz. Sell—2s. 2d. oz.; 5d. dr.

Bismuth. oxid. : Cost—1s. 9d. oz. Sell—2s. 8d. oz.; 6d. dr.

Bismuth. oxychlor. : Cost—1s. 6d. oz. Sell—2s. 3d. oz.; $\frac{1}{2}$ d. dr.

Bismuth. salicyl. : Cost—1s. 4d. oz. Sell—2s. oz.; 5d. dr.

Bismuth. subnit. : Cost—13s. 9d. lb. Sell—1s. 8d. oz.; 3d. dr.

Cetaceum : Cost—2s. 1d. lb. Sell—3s. 2d. lb.; 10 $\frac{1}{2}$ d. 4 oz.; 3d. oz.

Cetacei pulv. : Cost—3s. 2d. lb. Sell—1s. 4d. 4 oz.; $\frac{1}{2}$ d. oz.

Chirata incis. : Cost—2s. 6d. lb. Sell—1s. 1d. 4 oz.; 4d. oz.

Cocain. hydroch., B, F : Cost—3s. 1d. dr. Sell—5s. dr.; 2d. gr.

Codeina, B : Cost—22s. oz. Sell—6s. dr.; 2d. gr.

Codein. phosph., B : Cost—16s. 9d. oz. Sell—4s. 9d. dr.; 2d. gr.

Diphtheria serum, 8,000 units (A. & H.) : Sell—11s. 6d. *Dormigene pdr.* (A. & H.) : Cost—11s. 6d. oz. Sell—17s. 3d. oz.; 3s. 4d. dr.

Euquinine : Cost—16s. oz. Sell—24s. oz.; 4s. 7d. dr.

Ferri et am. cit. : Cost—4s. 6d. lb. Sell—1s. 11d. 4 oz.; 6 $\frac{1}{2}$ d. oz.; 1d. dr.

Fluorescein sodium (sol. 2 per cent.) : Cost—2s. 6d. oz. Sell—9d. dr.

Hydrargyrum : Cost—5s. lb. Sell—7s. 6d. lb.; 2s. 4d. 4 oz. wt.

Inf. buchu conc. : Cost—6s. 8d. lb. Sell—2s. 9d. 4 oz.; 9d. oz.; 1 $\frac{1}{2}$ d. dr.

Inf. seneg. conc. : Cost—4s. 9d. lb. Sell—2s. 2d. 4 oz.; 8d. oz.; 1 $\frac{1}{2}$ d. dr.

Iodum resub. : Cost—2s. oz. Sell—3s. oz.; 7d. dr.

Jalap. rad. (V.C.) pulv. : Cost—5s. 6d. lb. Sell—8s. 3d. lb.; 2s. 5d. 4 oz.; 8d. oz.

Lin. pot. iod. c. sapon. : Cost—4s. 9d. lb. Sell—2s. 1d. 4 oz.; 7d. oz.

Liq. bis. et am. cit. : Cost—1s. 9d. lb. Sell—10 $\frac{1}{2}$ d. 4 oz.; 3d. oz.

Lobelia : Cost—4s. 6d. lb. Sell—2s. 4 oz.; 7d. oz.

Lycopodium : Cost—11 $\frac{1}{2}$ d. oz. Sell—1s. 6d. oz.; 3 $\frac{1}{2}$ d. dr.

Magnes. pond. : Cost—3s. 8d. lb. Sell—1s. 7d. 4 oz.; 5 $\frac{1}{2}$ d. oz.

Magnes. carb. lev. : Cost—1s. 1d. lb. Sell—6d. 4 oz.; 2d. oz.

Mel W.I. : Cost—1s. lb. Sell—6d. 4 oz.; 2d. oz.

Menthol : Cost—3s. oz. Sell—4s. 6d. oz.; 10d. dr.

Menthol cones (8 to oz.) : Cost—3s. 2d. oz. Sell—3 $\frac{1}{2}$ d. each.

Methyl salicyl. : Cost—4s. 9d. lb. Sell—2s. 2d. 4 oz.; 8d. oz.; 1 $\frac{1}{2}$ d. dr.

Morph. acet. B, F : Cost—13s. 9d. oz. Sell—3s. 11d. dr.; 1d. gr.

Morph. hydroch. B, F : Cost—13s. 9d. oz. Sell—3s. 11d. dr.; 1d. gr.

Morph. tart. B, F : Cost—17s. 6d. oz. Sell—5s. dr.; 1 $\frac{1}{2}$ d. gr.

Ot. anthem. Ang. : Cost—21s. oz. Sell—6s. dr.; 1 $\frac{1}{2}$ d. min.

Ot. citronella : Cost—3 $\frac{1}{2}$ d. oz. Sell—6d. oz.; 1d. dr.

Ot. menth. pip. redest. : Cost—22s. lb. Sell—2s. 9d. oz.; 5d. dr.

Ot. menth. pip. H.G.H. : Cost—34s. 6d. lb. Sell—4s. 4d. oz.; 8d. dr.

Ol. morrhua (Newfoundland) : Cost—8s. 6d. gal. Sell—1s. 9d. pt.; 5d. 4 oz.; 1 $\frac{1}{2}$ d. oz.

Ol. morrhua (Nor.) : Cost—8s. 6d. gal. Sell—1s. 9d. pt.; 5d. 4 oz.; 1 $\frac{1}{2}$ d. oz.

Ol. persic Ang. : Cost—2s. 6d. lb. Sell—3s. 4 $\frac{1}{2}$ d. 16 oz.; 1s. 4 oz.; 3 $\frac{1}{2}$ d. oz.

Ol. persic. Ang. pal. : Cost—2s. 10d. lb. Sell—3s. 10 $\frac{1}{2}$ d. 16 oz.; 1s. 2d. 4 oz.; 4d. oz.

Rheumatin : Cost—16s. oz. Sell—4s. 7d. dr.

Saloquinine : Cost—16s. oz. Sell—4s. 7d. dr.

Tr. iodi fort. : Cost—9s. 6d. lb. Sell—4s. 1d. 4 oz.; 1s. 1d. 1 oz.

Tr. iodi mit. : Cost—7s. 2d. lb. Sell—2s. 8d. 4 oz.; 9d. 1 oz.

APPRECIATIONS

The most complete and excellent list we have used up to date.—(108/11).

Thanks for the Price List, absolutely and easily the best issued. What makes it so is that it inspires, or rather gives every confidence as the authority, and coming from you one feels it is beyond question the right thing (122/35).

I congratulate you on the Price List. A good price list is a very great asset to the busy chemist; some do not think so, but when tried and proved I would not go back to the old style of any price, and perhaps higher to some customers than others. Your list is so complete, and I like cotton-wool, bandages, etc., being in alphabetical order, and not in a separate part of list.—(26/1).

Personalities

MR. G. A. MALLINSON, chemist and druggist, secretary of the Retail Pharmacists' Union, was called to the Bar at the Inner Temple, London, on January 26.

MR. C. H. STARN, SEN., who represented Fredk. Farmer & Co., proprietors of Ratmousine, is no longer with the firm.

MR. F. ROBINSON, JUN., has joined the selling staff of The British Harold F. Ritchie & Co., Ltd., and will cover Lancashire, Cheshire, and North Wales.

COUNCILLOR ALBAN ATKIN, chemist and druggist, 243 West End Lane, London, N.W. 6, has been re-elected to five committees and two sub-committees of Hampstead Borough Council.

MR. FRED. C. SAVAGE (J. Savage & Co., Ltd., wholesale and retail chemists, Bradford) has been elected a member of the Executive Committee of the Bradford Hospital and Convalescent Fund.

MR. D. MYRDDIN EVANS, B.A. (honours) Oxon, LL.B. (honours) Lond., only son of Mr. M. D. Evans, chemist and druggist, Towyn, was called to the Bar at the Inner Temple, London, on his twenty-second birthday, January 26.

MR. L. HIEGENTLICH, of Rose & Co., manufacturers of fruit essences, extracts, aromatic chemicals, etc., Amsterdam and Haarlem, is now in London on one of his periodical visits, and may be addressed c/o Imperial Hotel, Russell Square, W.C. 1.

COUNCILLOR C. A. CRITCHLEY, Ph.C., Blackburn, was elected President of the Blackburn Chamber of Trade at its annual meeting on January 30. In returning thanks Mr. Critchley advocated the promotion of lectures on trade subjects.

THE FOLLOWING representatives have been appointed by John Bell & Croyden, Ltd., Incorporating Arnold & Sons, 5 Giltspur Street, London, E.C. : Mr. A. Greenwood Watkins, M.P.S., for the South-Eastern counties; Mr. G. Houghton-Evans, for the Eastern counties; and Mr. W. J. Latty, M.P.S., until recently in business on his own account at Bath, for the Bristol district and South Wales.

MR. F. HARRISON GLEW, chemist and druggist, Clapham Road, London, S.W. 9, has completed, in association with Professor Sidney Russ, the division of 5 grams of radium bromide recovered some time since from war materials and deposited at the Middlesex Hospital, London, W. 1. The salt has been allocated to various provincial centres in quantities of 0.01 gram and upwards, sealed up in hollow platinum needles—a delicate and probably unique piece of dispensing.

MR. RONALD LAMBERT PARRY, B.A., LL.B., eldest son of Mr. Ernest J. Parry, B.Sc., F.I.C., barrister-at-law, was called to the Bar at Gray's Inn, London, on January 26. Mr. R. L. Parry had a distinguished scholastic career at Corpus Christi College, Cambridge, where he won an open exhibition and was the holder of the Phillips Memorial Scholarship for mathematics. In 1918 Mr. Parry entered a cadet battalion and trained for a commission. His brother, MR. JOHN CHAPMAN PARRY, has also taken up the study of law, and has been elected a member of Gray's Inn.

At the recent installation meeting of the Edward Terry Lodge of Freemasons at Freemasons' Hall, London, W.C. 2, the following pharmacists and other brethren connected with the drug-trade were present : Bros. Alban Atkin, invested junior warden; John Royle (Ingram & Royle, Ltd.), senior deacon; A. J. Pickford (John Bell & Croyden, Ltd.); Tom Batey (clerk to the London Insurance Committee); W. E. D. Shirtliff (President of the Western Pharmacists' Association); J. D. Grant (Hove); C. B. Baker (Nuneaton); A. J. Greatrex (Boots, Ltd.); W. C. Tarry (Fulham).

At the request of the Carmarthenshire Chemists' Association, the Llanelli Chamber of Trade is convening a meeting of tradesmen to decide the question of changing the early-closing day, which is at present Tuesday.

Marriage

THOMPSON—BUTTERFIELD.—At St. John's Church, Darwen, recently, Ben Thompson, son of Mr. Joseph Thompson, Clitheroe, to Eileen, youngest daughter of Mr. J. W. Butterfield, chemist and druggist, 33 Market Street.

Deaths

BALL.—At Western House, Tufnell Park Road, London, N. 7, on February 1, Mr. Arthur Wilson Ball, joint managing director of Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C. 4, aged sixty.

CURTIS.—On January 30, Mr. George Curtis, chemist and druggist, 42 Quernmore Road, London, N. 4. Mr. Curtis, who began his pharmaceutical career in Aberdeen, qualified in 1889. He had been in business in North London for nearly twenty years, and was a valued member of the Committee of the Chemist Opticians' Society and of the North London Pharmaceutical Association, which latter he joined on its formation in 1912.

HUNTER.—At 20 Kenilworth Road, Newcastle-upon-Tyne, on January 27, Margaret Milne, the dearly beloved wife of Mr. Archibald Donald Hunter, pharmacist, aged thirty-five.

JAMES.—Recently, the second child of Mr. Idwal James, chemist and druggist, Central Pharmacy, Porthcawl, aged nine weeks.

MERSON.—At 9 Hampton Terrace, Edinburgh, on January 29, Mr. Robert Burnett Merson, dearly loved son of Mr. G. F. Merson, F.R.S.Edin., F.C.S., Ph.C., and of Mrs. Merson, aged twenty-five.

NOLTY.—At 18 McLellan Street, Dumfries, on January 21, Mr. Edward Teasdale Nolty, chemist and druggist, aged forty. Mr. Nolty acquired his business in Dumfries from Mr. G. L. McGibbon in 1913.

SOUTHWELL.—At a nursing home, on January 26, Mr. Charles Bullock Southwell, chemist and druggist, High Street, Knaresborough, aged sixty-one. Mr. Southwell carried on business at Knaresborough for thirty-two years.

Wills

MR. WILLIAM LANE, 8 Albert Road, Whalley Range, Withington, a director of James Woolley, Sons & Co., Ltd., wholesale druggists, Manchester, who died on November 29, left estate of the gross value of £4,124 12s. 1d., with net personality £3,903 3s. 4d.

MR. JOHN WILLIAM LASHAM, Ph.C., Woodlands, Errol Road, Romford, Essex, who died on November 3, has left £9,765 0s. 4d., of which £7,687 11s. 2d. is net personality. The will of December 12, 1916, is proved by his son Herbert Cropper Lasham, of the above address, and Sydney William Adams, 7 Market Place, Romford. He gives an annuity of £130 to his wife and the residue of the property to his son.

MR. WALTER HENRY SMITH, Ph.C., 191 Eastern Road, Brighton, who died on November 11, left property of the value of £16,970 3s. 4d., the net personality being £13,549 16s. 11d. The will and codicil have been proved by Joseph Edward Bush, 22 Ship Street, Brighton. The testator gives £100 to the Pharmaceutical Society's Benevolent Fund, and the residue of the property as to one-half to the Church Missionary Society for Africa and the East; one-quarter to the London Society for Promoting Christianity among the Jews; and one-eighth each to the South American Missionary Society and the Spanish and Portuguese Church Aid Society.

ALGERIAN GERANIUM OIL.—The acreage planted has been considerably reduced, and certain distilleries have been closed. A syndicate has been formed to keep going one or two of the number. The second crop was abandoned almost entirely owing to the cold and snow. The stock in Algeria is reduced to a minimum, and the advance in price is justified ("La Parfumerie Moderne").

Trade Notes

"MINSTER" BRAND WATERGLASS is advertised in this issue by Maurice Smith & Co., Ltd., manufacturing chemists, Kidderminster.

D. P. DENTAL CREAM.—The Spa Toilet Co., Leamington, invite chemists to write for particulars of a new selling scheme in connection with the D. P. dental cream.

A NEW GRANULATING MACHINE for preparing material for compression into tablets is illustrated in the announcement of S. W. Wilkinson & Co., Western Road, Leicester.

DRUGGISTS' SUNDRIES SHOW.—Mr. Thomas Swales, Leeds, is holding an exhibition of druggists' sundries at the White Bull Hotel, Blackburn, from February 6 till February 17, to which local chemists are invited.

LYSOLID.—The use of this clever form of lysol is specially recommended in foot-and-mouth disease of cattle. The proprietors of Lysolid, John Bell & Croyden, Ltd., Incorporating Arnold & Sons, 5 Giltspur Street, London, E.C. 1, invite inquiries by telegram, phone, or letter.

INFLUENZA PERLES.—In great demand at the present time as a preventive of influenza are "J. D." quinine and cinnamon perles made by Jules Denoual & Co., Carlton Works, Asylum Road, London, S.E. 15. The perles contain quinine sulph. gr. j., ol. cinnam. B.P. m.j. in each, and are put up in decorated tin boxes with artistic labels in colour.

SILKNIT PUFFS.—Solport Bros., Ltd., 184 to 190 Goswell Road, London, E.C. 1, send us a sample of the recently introduced Silknit puff. The puff is of the folding variety in attractive shades of silk, and is supplied in assorted colours in partitioned boxes of six, or in separate circular boxes. There is, we are informed, already a brisk demand for these puffs.

HORDINE is a special form of liquid malt made by Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. It is prepared at low temperature and pressure from Scottish malted barley, so that the malt diastase is preserved in its greatest activity. Hordine is especially adapted for use in amylaceous dyspepsia and similar dietary irregularities.

"G.O." FLAVOURED SEIDLITZ POWDERS.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E. 13, whose advertisement appears in this issue, call attention to the fact that chemist's own name and address are printed free on each envelope in orders for moderate quantities of G.O. lemon-flavoured seidlitz powders. Howard's pulv. seidlitz is used, and showcards (in two colours) are supplied.

CIMOLITE SHOWCARD.—Mr. John Taylor, manufacturing chemist, 30 Baker Street, London, W., has issued a showcard which will be supplied free to chemists, on request, by the wholesale houses or direct from the manufacturer. The showcard, which is a beautiful production, gives facsimile illustrations of the series of Taylor's Cimolite preparations, and is a handsome adjunct for counter or window displays of these well-established proprietaries.

ROURE-BERTRAND FILS "BULLETIN."—The latest issue of this publication, just received, gives an exhaustive study of *Lavandula Stachas*, which should be of value in dispelling the confusion existing between this plant and *Lavandula dentata*. The industrial review gives a brief account of the Digne Lavender Congress, which we dealt with last week (p. 61). Some interesting notes on various essential oils and perfumes follow. These give the reader valuable information on recent research work.

GLAXO PRICE-REDUCTION.—Joseph Nathan & Co., Ltd. (Glaxo Department), 56 Osnaburgh Street, London, N.W. 1, announce that from February 1 the prices of Glaxo will be 4s. 6d. (instead of 5s.), 2s. 9d. (instead of 2s. 6d.), and 1s. 6d. (unchanged). The proprietors have arranged to credit chemists with the difference in price, for which purpose stock sheets are being sent out. An attractive poster has also been prepared, which it is asked that chemists will exhibit promptly.

"MOORLAND TONIC."—The January issue of "Moorland Tonic," the house-organ of W. B. Cartwright & Co., Ltd., Rawdon, contains a variety of interesting articles, including the first instalment (five pages) of a series on "Book-keeping in the Pharmacy." Mr. A. E. King, Ph.C., Norwich, is again a winner in the competition, sharing the prize on this occasion with Miss J. A. Horsfield, chemist and druggist, Rotherham. The company is offering a prize for window-dressing. W. B. Cartwright, Ltd., have added the following articles to the protected list of the Proprietary Articles Trade Association : Pacific pain balm (1s. 3d.), "Elfrida" brilliantine (1s. 3d.), cocoanut-oil shampoo (1s. 3d.), face cream (1s. 6d.), hair cream (1s. 6d.), hair tonic (1s. 3d.), and toilet paraffin (1s. 6d.); Nupirin for rheumatism (5s.). A special illustrated circular is being issued regarding seasonable specialities which gives ideas in window displays.

Coming Events

Monday, February 6

Society of Chemical Industry. Rooms of the Chemical Society, Burlington House, Piccadilly, London, W., at 8 p.m. Paper on "Recent Work on Catalysis at Solid Surfaces," by Messrs. E. F. Armstrong and T. P. Hilditch.

Wednesday, February 8

Birmingham Pharmaceutical Association. Imperial Hotel, at 8 p.m. Dr. J. Coole Kneale (Lecturer and Examiner in Materia Medica, University of Birmingham) on "Electricity as a Means of Medical Treatment."

Manchester Pharmaceutical Association. Whist-drive and concert. *Portsmouth Pharmacists' Association.* "The Cadena," at 7 p.m. Whist-drive.

Salford Pharmaceutical Association. Annual dinner.

South-West London Chemists' Association. Delmont Hall, Delmont Road, Grafton Square, Clapham, at 7 p.m. Social and dined. Tickets (including refreshments), 3s. each. Morning dress.

Thursday, February 9

Chemical Society. Institution of Mechanical Engineers, Storey's Gate, London, S.W., at 8 p.m. Sir Ernest Rutherford, F.R.S., on "The Artificial Disintegration of Elements."

South Wales and Monmouthshire Pharmacists' Local Associations Federation. Castle Hotel, Neath, 6 p.m. At a meeting of representatives appointed by Associations, Mr. E. T. Neathercoat (President of the Pharmaceutical Society) will open a discussion on "Local Organisation (Branch Formation)."

LONDON COUNTY PHARMACEUTICAL ASSOCIATION.—The annual dinner will be held at the Connaught Rooms, Great Queen Street, London, W.C. 2, on February 16. Ladies especially invited. Tickets (12s. 6d. each) from members of the County Executive, or from Mr. G. A. Tocher, 235-6 Bank Chambers, High Holborn, W.C. 1.

Information Department

INFORMATION WANTED

B/311. "Antidipso" (present London supply)	H/271. "Purcellium" (cancer cure)
H/301. Aluminium perforated eye-shades	S/261. "Levasco"
W/281. "Ramoline" extract of meat	B/111. Jameson's arsenical soap
T/281. "Blue Perfect" for cleaning grate tiles	B/241. Russian food
S/12. "Vinosol"	O/241. Compressed sphagnum-moss dressing

INFORMATION SUPPLIED

Alphabetical rubber stamps, K/261	Files and orange sticks for mannequin cases, C/261
Automatic weighing, measuring, and folding machines for powders, B/31	Radway's ready relief, A/271
"Blattis," M/241	Turned wood boxes, A/251
"Boots" boot polish, B/51	Vogeler's curative compound, C/311
Dr. Ross's life pills, A/271	White pine cough syrup, with tar, A/141

Observations and Reflections

By Xrayser II.

There is a Growing Demand

for the speedy reduction of the present high postal rates, and I am glad to see that an influential deputation of commercial men is to wait on the Postmaster-General in support of it. There can be no question as to the crippling effect on business of such charges as are now imposed upon us, and the evil is not compensated for by any increase in the efficiency of the service provided, but rather the contrary. The Post-Office authorities are burning their candle at both ends : they are reducing the facilities for intercommunication and raising the price of it. Speaking from my own experience, I should say that the result is not likely to be beneficial even to the Post-Office itself, and certainly there has been a great reduction of the amount of business done through the post : my own letter-bag is proof enough of that. No opportunity ought to be lost of impressing these facts on the Postmaster-General both by individuals and by associations. Communications addressed to him fortunately cost nothing (as yet) but the paper on which they are written, and, though he is apparently deaf to argument, a "continual coming" might weary him into granting some concession.

The Pharmaceutical Chemist

or chemist and druggist desiring registration under the new Dentists Act is treated very differently from those non-qualified dealers in drugs who sought registration as chemists and druggists under the Pharmacy Act, 1868. Then a simple declaration by the applicant that he had been in business in that capacity before the passing of the Act, confirmed by a similar declaration by a doctor or magistrate (who probably had only a very general superficial knowledge of the facts), was all that was deemed necessary. It must be admitted that this leniency was grossly abused, many men obtaining registration who had no right to it, but the sieve of the Dentists Act is as much too fine as that of the Act of 1868 was too coarse. It should be sufficient, surely, to establish the general credibility of the applicant without demanding evidence, "intimate and personal," of his character and standing. Most of us, I suppose, occupy a position, as regards truthfulness, somewhere between George Washington and Ananias, but an "intimate" revelation of our private character in that or other respects might reveal flaws that would do no grievous wrong.

The By-products

of many industries have proved ultimately to be of the greatest importance, and although this can hardly be said after reading the arguments in the calcium carbide case, they have furnished us with some excellent good reading. True, they are like the champagne in the story ; though they stimulate thought and ventilate the subject, they do not carry us "much forrader," for whatever is said on one side is pretty sure to be contradicted on the other, and the decision, when it is given, is not likely to be determined by purely scientific considerations. Still, the answer to the question "What is a synthetic organic compound?" may indirectly be brought nearer to a solution by the discussion in this case. The definition, when it is arrived at, may be open to Dr. Ormandy's criticism—that is, we may have to allow for exceptions ; but that is true of all such definitions and is no real objection to them. Every rule has its exceptions, and is proved to be the rule by that very fact : without them the term "rule" would be almost meaningless, and what would become of the lawyers if there were none?

The Question

raised by a Belgian pharmacist in the "Journal de Pharmacie de Belgique" (C. & D., January 21, p. 42) is not, it seems to me, very difficult to answer. The pharmacist might be justified in refusing to dispense the prescription, but his behaviour with regard to it was deplorably rude and quite uncalled for. The suggestion

that the cutting out of the price charge was a kind of forgery is ludicrous if, as I presume, this had been added by some previous dispenser. In that case it was no part of the original document, and it would be more reasonable to regard its addition as a species of forgery than its removal. I do not suppose that in Belgium doctors price their prescriptions any more than they do here. If I am wrong, my remarks do not apply in this particular case ; but an English chemist who so behaved to a customer would deserve censure rather than commendation. The prescription was, in any case, not his to throw away. It ought, if refused, to have been returned to the customer.

A Layman

cannot, it appears, supply a copy of a doctor's prescription for official use without committing a species of *lèse-majesté*, or shall we say the sin (let us hope not the fate) of the unfortunate Uzzah? Touch not the sacred ark ! Fortunately, there does not seem to be any crying need of analytical tests of Insurance dispensing, since in the district in which it has been asked for only two complaints are known to have been made in nine years. But whether it is necessary or not, the ground on which it has been hung up is ridiculous, and only serves to illustrate the tendency of the profession to prance about on its hind legs, for all the world like a restive horse.

Window-dressing

is an art that has received a good deal of attention lately, and out of the many discussions of the subject that I have read one fact seems to have emerged by almost universal consent, the fact that of all window-shows the most effective is that which consists of one class or series of articles only ; that the secret of success is to concentrate upon one thing, not to scatter the interest over a confused medley of unrelated articles. I sometimes wish that speakers at local associations, especially apologists for the *status quo* in pharmacy (whose addresses are a species of window-dressing), would take the hint. One wearies of the long strings of vague commonplaces, the "damnable iteration" of platitudes about the value of the Society, the good intentions of the Retail Pharmacists' Union, the necessity of organisation, of a firm attitude with regard to Insurance dispensing-fees, of maintaining our professional status, and all the rest of it, and longs for a really informative straight talk on some particular subject, or special aspect of the general situation, something that brings us sharp up against realities and shows us how to deal with them. No doubt this makes a little more demand upon the speaker. It is much easier to maintain an appearance of wisdom in the abstract, or to scatter hints over a large undefined area, than to deal closely and convincingly with concrete facts ; but what comes of all these diffus generalities ? Just nothing. We leave such conferences in the mood of Tennyson's "Northern Farmer" : "I thowt a said whot a owt to 'a said an' I coom'd awaäy."

Dr. Witherington

did not, strictly speaking, introduce digitalis ; it was in our Pharmacopœia long before his time, though not when he wrote, and was used both externally for scrofulous and other sores, and internally in decoction and infusion, chiefly as an emetic, but for other purposes as well. Its action seems to have been very certain. Culpeper says it is "of a gentle cleansing nature," and Salmon sarcastically suggests that the addition of 2 grains of tartar emetic to each dose of Bate's decoctum digitalis would increase its efficacy as an emetic. Heade, however, relates that a 6-grain dose of the powder given to him in 1738 came near to killing him. It had been re-admitted into the Edinburgh Pharmacopœia in 1783 ; Witherington wrote in 1785, and it was reintroduced into the Pharmacopœia Londinensis in 1788. To Witherington is due the credit of having established its use in dropsy, and of showing the danger of large doses and the necessity of watching its action ; but he does not claim to have discovered its value as a diuretic.

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Editorial Articles

Pharmacy Reform in Germany

For nearly fifty years the question of introducing a uniform system of ownership of pharmacies has been the most discussed subject in German pharmacy. Following the revolution, and in consequence of the altered political situation in Germany, the question has become a matter requiring immediate attention. In order to understand the position, it is necessary to bear in mind the fact that there are three distinct types of ownership, representing the successive stages in pharmaceutical legislation. In the first place there are the privileged pharmacies—i.e., those pharmacies which owe their foundation to a charter, or privilege, granted in former times by one of Germany's many rulers; these represent the historical businesses of Central Europe. Early in the last century, in 1811, the Government of each State took in hand the task of granting permission to open new pharmacies, based on the ratio of one pharmacy to 10,000 inhabitants, the future owner being selected from

among those applicants who applied for the permission on notice being issued that a new pharmacy was to be created in some town or village. At first these businesses also became the absolute property of the first holder, and in this respect do not differ from the older privileged pharmacies. Towards the end of the nineteenth century, however, a change was decided upon, and since 1894 all new pharmacies opened have been "concessions"—that is, the successful applicant becomes merely the owner of the business during his lifetime, and on his death, or retirement, the surrendered concession is open to sale by competition; the new owner being required to acquire from his predecessor the house, fittings, and stock. The privileged pharmacies, owing to the monopoly which the pharmacist in Germany enjoys, have always possessed a very high value in the shape of goodwill; some of these businesses changed hands before the war at as much as £50,000. Naturally, such a business could only be acquired by a man with capital, or one who married where capital existed—the title of "Frau Apotheker" (Mrs. Pharmacist) in pre-war days exerted a great fascination on the daughters of successful "tradesmen," since it brought with it the social status of those who had undergone a "university training," and are known as "Akademiker." The impecunious pharmacist, on the other hand, had to be content to wait at least fourteen years before being eligible to compete for a "concession," and was then confronted by the problem of finding perhaps £2,000, or more, whereby either to fit up a new pharmacy or buy the business left by the late holder of the concession. With the advent of the Social Democratic party to power the reform of pharmacy entered the realm of practical politics. Monopolies of all descriptions are anathema to the members of this party, and in the early days of the German revolution the question of abolishing both privileges and concessions was freely discussed, in order to introduce general free exercise of the profession. However, coupled with the demand for the nationalisation of the medical and pharmaceutical professions, other views were expressed in favour of the retention of the system of limiting the number of pharmacies, but advocating the granting of the concession to the town or village authorities in the place of an individual, and this course has actually been adopted in some German States. The uncertainty regarding the ultimate fate of the pharmacies has naturally not been without its effect on the profession itself. Last year it was decided to "take the bull by the horns," and the members of the profession resolved to decide by a majority on the system of their choice, and submit a clear-cut policy to the Government instead of waiting for the introduction of a law by the Government. The crux of the question lies in the difficulty of compensating the proprietary or privileged pharmacies for the loss of their goodwill, as this naturally represents the first step to be taken in introducing either a uniform system of concessionary pharmacies, or the unrestricted exercise of the profession by all duly qualified persons. There are about 4,000 privileged pharmacies in Germany, and prior to the war the goodwill of these was assumed to amount to about £25,000,000. It was idle to expect the State to disburse this huge sum merely to dispossess some 4,000 individuals of an imaginary right, and certainly no Parliament, even under the old *régime*, would have been found willing to sanction this expenditure. As a result of a number of very stormy meetings of both owners and assistants, as represented in the leading associations, a plan of pharmacy reform was decided upon, and this

decision was presented to the Government of the Reich. In the first place, the purely personal form of concession—i.e., ownership of a pharmacy during lifetime only—is to be uniformly introduced, pharmacies being limited in proportion to the population. The existing privileges are to be extinguished within a period of forty years, the money required to compensate the existing owners of these businesses to be levied by means of a tax amounting to $1\frac{1}{2}$ per cent. of the turnover of every pharmacy. In other words, every owner will be called upon to contribute towards buying-up the goodwill of the 4,000 businesses which stand in the way of realising the introduction of a uniform system of concessionary pharmacies throughout the country. It cannot, however, be said that this decision represents the true views of the pharmaceutical profession at large. Quite recently a leading German pharmaceutical journal, following the C. & D. example when the views of the trade in the United Kingdom are required, instituted a plebiscite among the owners, with the result that 85.3 per cent. of those who replied, or about 66 per cent. of all owners, declared themselves against the proposal to contribute towards the repurchase of the privileges by a tax on turnover. Among the assistants there is a strong body in favour of the nationalisation of pharmacies, but the idea of introducing the free exercise of the profession, as in force in Great Britain, France, Belgium, Switzerland, and elsewhere, found practically no support among the members of the profession in Central and Eastern Europe, and is confined to a few politicians. It is no secret that the decision was arrived at in order to stave off what was regarded as a worse solution—that the Government measure, which is known to be pending, might decide on nationalisation in some form, thereby reducing the pharmacist to the status of a Government or municipal official. The Central Government has now forwarded a copy of this decision to the Governments of the single German States, with a set of questions which are to be dealt with immediately, it being proposed to discuss the whole matter at a meeting of representatives of the several States with the Minister of the Interior of the Central Government. The following points are raised :

- (1) Is it necessary and urgent to introduce uniform legislation for the reform of the system of pharmacy?
- (2) What system of ownership should be adopted as a solution of this question?
- (3) Should the system of purely personal concessions be advocated? On what bases should these concessions be granted?
- (4) Should the existing right extended to widows and orphans of owners to have the business managed on their behalf be maintained?
- (5) Is it considered necessary to transform the existing privileged pharmacies into concessions?
- (6) What is to be the position of the existing communal pharmacies? Is it thought advisable to include in the proposed law a provision for the creation throughout the country of this class of pharmacies?
- (7) How are the owners of the existing privileges to be compensated for the abolition of the right of sale, and how are the necessary funds to be provided for this purpose?
- (8) On what basis is the value of each "privilege" to be assessed?
- (9) Is it advisable to send out a uniform form of inquiry to obtain the necessary data for ascertaining the value of the existing privileges?

At the present moment there are but few European countries in which the future of pharmacy is not in the melting-pot, and in practically every case it is the politicians who will decide upon the final mould. In no

country are the members of the profession themselves in agreement on this point. One significant fact deserves to be placed on record : those in favour of introducing the unrestricted exercise of pharmacy in the place of a limitation of the number of businesses are a small minority. It would, in fact, appear as if the system of limitation of pharmacies were gaining adherents in "Free Trade" countries. The difficulties which confront the solution of the problem in Germany are not peculiar to that country : the identical obstacles stand in the way of a reform of pharmacy in all those countries in which both privileges and concessions exist side by side, and in every case, in Poland, Czechoslovakia, Austria, Hungary, Yugoslavia, the Baltic States, and even Denmark, the real issue is the question of compensation for the owners of the privileged pharmacies, the extinction of which is necessary to ensure a uniform system of pharmacy in each of these countries.

Oilseeds and Oils in 1921

THE trade in oilseeds and oils in the course of the past year was characterised by alternate periods of acute weakness and pronounced rallying power. Within the first three months or so market conditions were quite disorganised owing to the rapid accentuation of the depression which followed on the world's industrial crisis in the latter part of 1920. The marketing then of almost any commodity was very difficult, even at heavy sacrifices, which will be long remembered by the merchant trade, and more particularly by speculative cliques. Genuine trade buying was, indeed, kept largely in abeyance until the crumbling of prices showed evidence of having seen its worst. A certain amount of buying power had by that time accumulated, which thus brought about a moderate revival over the spring months at sharply advancing prices under the lead of linseed oil. Our export trade in this product was one of the most striking features, and, in fact, proved an important sustaining factor in the market for raw material during the greater part of the year. Our total exports of linseed oil during 1921 amounted to well over 55,000 tons, thus showing an excess of about 7,000 tons and 25,400 tons respectively, compared with 1920 and 1913. The conspicuous firmness of linseed oil throughout the summer months, under continuous liberal buying on Continental and American account, exerted a sympathetic influence on most kinds of vegetable oils and fats, while the movement of seed-supplies from the River Plate proceeded on a huge scale, both to home and Continental ports. The Argentine crop was materially greater and of better quality than the preceding one, and it is obvious that its marketing was greatly facilitated not only by the marked dearth of shipments of Indian seed, but also by a pronounced wave of speculative activity due to the fast diminution of the surplus in the River Plate before the autumn. Later, however, a great surprise was sprung upon the market by the fact that the crop yield had been under-estimated to the extent of as much as a quarter-million tons, so that the actual yield eventually proved to be well over 1,300,000 tons. Obviously, this tended to hasten the rapid set-back in linseed prices in the closing months of the year to a level almost as low as that registered in March last, although there was in December a sharp recovery from the worst to about £17 per ton, while the oil product rallied to over £50 for London spot delivery. The takings of the River

Plate shipments by this country were, roughly, 450,000 tons, which, together with the quantities diverted to Continental ports, which were especially heavy, accounted for quite a million tons being shipped during 1921 from that year's crop, including the surplus of well over 100,000 tons carried over from the previous season. Adding to the European takings the total of, roughly, a quarter-million tons absorbed by America, this gives an aggregate of over $1\frac{1}{4}$ million tons, while it is estimated that a surplus of over 100,000 tons was carried into the new season. Home crushers' operations, of course, were greatly facilitated by the excellent demand for their oil product. Heavy calls, indeed, were made upon them, both on Continental and American account. This enabled them to deal with much heavier quantities of seed than in the previous year, notwithstanding the huge quantities taken up by Continental crushers. But for these two important export-trade factors the cost of either linseed or linseed oil would, doubtless, be lower to-day. In regard to the export trade with the United States, a new development was the arrangement of a service of tank steamers from Hull, thanks to which this important business has been carried out recently on a more effective scale from crushers' mills, which, doubtless, means a saving in the cost of handling. Home-trade requirements in linseed oil throughout last year were comparatively small, owing to generally poor industrial conditions, the outlet for the manufacture of linoleum being still very restricted, although there should be some betterment in this industry before very long under lower working costs and a replenishment of trade stocks, which have fallen to small dimensions. The present home output of linseed oil being very considerably in excess of our own requirements, crushers are thus more than ever dependent on a good export outlet in order to maintain their operations, which are to some extent assisted by the fact that a fairly regular market can be secured for linseed cake for home farmers' use. Economic conditions in this country have improved a little, and trade prospects seem brighter, but current prices for the chief descriptions of seed oils are still too high to permit of the development of home consumption on more normal lines. The price of linseed oil, as a matter of fact, is still more than double the full average value ruling for some years before the war, but this can only be corrected by the cheapening of linseed, which is still very dear, its value within the last twelve months not having declined in the same proportion as the oil product. In the easier and healthier conditions looked forward to in the course of this year, however, and with the huge resources of raw material in sight from the River Plate and India combined, a more satisfactory adjustment in values is eventually looked for. As will be seen from the subjoined figures, giving the closing prices at the end of both 1920 and 1921, together with the two extreme levels reached in the past year, fluctuations were very wide. These, however, were not anything like the huge price movements which were recorded during 1920, when linseed oil fluctuated between about £124 10s. and £34 per ton (against £54 and £18 10s. for River Plate seed), and Egyptian crude cotton oil between £119 and £41 (against £33 and £13 10s. for Egyptian cotton seed). The trend of prices, upon the whole, has been downwards, while some of the products of the seed-oil industry, at certain periods within last year, even dipped into pre-war levels, as a result of serious financial troubles. It is somewhat remarkable that the depreciation in values on the year in either linseed or cotton seed proved so small, especially in view

of the fact that cost of transport has been appreciably reduced.

SPOT PRICES PER TON	DEC. 31, 1920	1921		DEC. 31, 1921
		HIGHEST	LOWEST	
River Plate linseed...	18 10 0	23 0 0	13 5 0	17 0 0
Calcutta linseed...	21 0 0	24 0 0	18 0 0	18 0 0
Linseed oil ...	41 0 0	41 0 0	22 0 0	28 10 0
Linseed cake ...	18 10 0	22 0 0	11 10 0	14 0 0
Cotton seed(Egyptian)	13 10 0	15 10 0	10 15 0	13 0 0
Cotton-oil, crude (Egyptian) ...	43 0 0	50 0 0	25 0 0	37 0 0
Cotton-seed cake ...	12 0 0	12 0 0	8 10 0	9 5 0
Rape seed (Toria) ...	23 0 0	22 15 0	17 0 0	17 10 0
Rape oil, crude ...	69 0 0	69 0 0	30 0 0	45 0 0

As shown above, cotton seed fluctuated within a range of only £4 15s. per ton, while the considerable shortage in the imports, as indicated elsewhere, had obviously a certain bearing on the market. This shortage was entirely the result of the very poor shipments of Bombay seed, which was partly made up by the freer supplies of a full average quality from Egypt. The output of Bombay crude oil was naturally very restricted, but this did not inconvenience soapmakers, who were well able to fill their needs with other descriptions of oils and fats. A curious anomaly was that the price of Egyptian crude cotton-seed oil persistently fluctuated much above that of linseed oil, in sharp contrast with pre-war conditions. The enormous shortage of cotton-oil production in the United States, which shortage for 1921 was estimated at, roughly, 160,000 tons, evidently had something to do with the comparatively inflated level of values on this side. But for the ample supplies of various other competitive descriptions of material used for edible purposes, the reduced output of cotton oil would have been severely felt under more normal industrial conditions.

We give below the official returns of imports of oilseeds and other descriptions of raw material into Great Britain for the past year, with comparisons. These show decreases, with two striking exceptions—namely, linseed and soya beans.

IMPORTS IN TONS	1920	1921
Linseed ...	389,367	469,791
Cotton seed ...	442,842	376,522
Rape seed ...	29,960	28,077
Soya beans ...	14,978	61,425
Nuts and kernels ...	477,594	394,631

The imports of linseed thus show an increase of over 80,000 tons compared with 1920, but the total of 469,791 tons is still much below the returns for the year 1913, which were well over 650,000 tons. The supply of cotton-seed shows a deficit of about 65,000 tons on the year, but there is a fair prospect of more normal shipments from India this season owing to improved crop indications. In regard to soya beans, this trade looks like being re-established to some extent, as the imports for 1921 disclose a considerable increase compared with 1920. A notable feature was the landing on the East Coast of three cargoes of crude soya-bean oil from the Far East for handling by home refiners. The material set-back in our imports of oil nuts and kernels is, of course, largely accounted for by the trade depression and the consequent sharp decline in prices. The deficit represents about 83,000 tons, but

in spite of this the fact deserves notice that some 23,000 tons more went into Hull than in 1920, this development being indicative of the growing competition apparent at that centre against Liverpool enterprise in this important branch of industry. Prices last spring were severely depressed, and after a good rally over the summer there was a renewed slump in palm kernels and other tropical produce, which was aggravated by reduced Continental buying power. Under more normal conditions there is no doubt that the German demand for nuts and kernels will reassert itself on a much larger scale, as that country, prior to the war, absorbed considerable quantities of oilseeds, nuts, and kernels.

The American Drug Trade

By Robert C. Johnson, Dublin

In a recent visit to Canada and the United States I had many conversations with wholesalers, retailers, and others, from which I gathered much information regarding the drug trade in those countries. There are approximately 47,000 retail druggists in the United States, this including chain stores. One of the stores in the basement of a New York hotel is said to pay a rent of £20,000 a year (not dollars). An analysis of the trade done by the average American druggist is as follows :

Prescriptions	...	...	...	10 per cent.
Patent medicines	...	...	...	22 "
Toilet articles	...	...	...	10 "
Rubber goods	...	...	...	3 "
Candy	...	...	...	5 "
Cigars	...	...	...	8 "
Soda fountain	...	...	...	14 "
Sundries	...	...	...	28 "

Total 100 per cent.

The average cost of working a business is about 26 per cent. There are some articles the price of which in the East is different from the price in the West, owing to the high cost of carriage.

In the New York street cars advertisements such as the following appear :

Patronise your neighbourhood chemist. He takes a personal interest in you and your family—a wonderful thing in time of sickness. Appreciate it by giving him your drug sundries and fountain business as well. He refuses to buy job lots at a price to work off on his patrons because his profession is his pride. His title is "Doctor of Pharmacy."

Nevertheless the druggist is not recognised as a semi-professional man to the same extent as he is in Ireland.

The wholesaler looks for a profit of 15 per cent. to 20 per cent., and he is probably in a stronger position than in Great Britain. The reason for this is that, owing to the large size of the country, the average manufacturer cannot do his own distribution. Fifteen years ago it was predicted that the wholesaler was doomed, but it is now admitted that altered circumstances tended to entrench the wholesaler. It is claimed that buying from wholesalers gives the retailer the advantage of combining many items in one delivery, reduces the necessity for overbuying, saves hundreds of letters and a lot of bookkeeping.

It is illegal to protect prices in the United States; therefore there is no such association as the Proprietary Articles Trade Association. The method of reckoning profit is on the cost, and not on the selling, price. For instance, to buy an article at the equivalent of 1s. and sell it at 1s. 6d. is reckoned as 50 per cent. profit, whereas the true profit is 33½ per cent. The stamp tax on certain toilet articles is confusing, and inconvenient. For example, my wife bought a tube of face cream for 25 cents, and had to wait to have a 1-cent stamp affixed before the sale was legal. There is, however, no stamp on a shaving-stick, as this is considered a necessary, while the cream is a luxury. What strikes one specially about American pharmacy is the miscellaneous character of the druggist's trade. One may even see ladies' bags and dolls in the drug stores.

Pharmaceutical Society of Great Britain Council-meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on February 1, Mr. E. T. Neathercoat (President) in the chair. The absent members were Messrs. Campkin, Keall, Wolff, and Young.

The President intimated that there were no questions.

DEATH OF MR. C. T. ALLEN

The President, after recalling that at the last meeting of the Council it had been his painful duty to refer to the deaths of two past-Presidents of the Western Pharmacists' Association, regretted that another respected pharmacist who had held that office had since passed away, in the person of the late Mr. C. T. Allen. The name of Allen was an honoured one in British pharmacy, Mr. C. T. Allen having been the son of the late Mr. C. B. Allen, who for so many years was a member of the Council and for two years its President, and was intimately connected with pharmaceutical affairs for a great many years. The lustre that was associated with the name of Allen had been maintained, and, indeed, added to, by the activities of Mr. C. T. Allen, who was a member of the Board of Examiners for two periods of service, making together about eight years, and had shown keen interest in pharmaceutical matters, in London especially. Mr. Allen's papers before the various pharmaceutical associations reflected considerable thought and were always of quite a scientific character. He had known Mr. Allen for about twenty years—ever since they were students together in the School of Pharmacy in Bloomsbury Square, and his late colleague's connection had been kept up all through the intervening years. He was sure that the Council would wish a letter to be sent to Mr. Allen's widow and family, expressing regret at the sad event and condolence with them in their grief.

Mr. Melhuish, a past-President of the Western Pharmacists' Association, associated himself with the President's observations, and a resolution in appropriate terms was approved in the customary manner.

ELECTIONS AND RESTORATIONS

Seventy-five persons were elected members and fifty-seven student-associates of the Society; one person was restored to the Register. The registrar reported that there had been ninety-nine registrations of apprentices as students since the last meeting.

RETIRING MEMBERS

The secretary reported that the following members of the Council retire in May next pursuant to statute:

Antcliffe, H.	Parry, L. M.
Currie, W. L.	Skinner, H.
Gifford, R. L.	White, E.
Hagon, A.	

REGISTRAR'S REPORT

The registrar submitted his report for the year 1921. The following abstract embodies the chief features:

The subscribers to the Society are 1,057 life compounders, against 1,072 in 1920; 9,897 annual subscribers, against 9,731; and 2,114 student-associates, against 3,533. The number of apprentices or students registered is 1,087 (2,033 in 1920). An analysis of the examinations in London for the year shows the following: Major, 60 candidates, of whom 35 were successful (in 1920 the respective numbers were 39 and 17); Qualifying, 2,665, of whom 838 passed (in 1920 the corresponding numbers were 2,430 and 870). In Edinburgh there were 11 candidates for the Major, of whom 6 were successful (in 1920 there were 3 successful candidates out of 5 entrants); for the Qualifying, 992 candidates, of whom 395 passed (in 1920 the numbers were 897 and 438 respectively). The number of pharmaceutical chemists on the registers on December 31, 1921, was 1,861, and of chemists and druggists 16,675, a total of 18,536. (In 1920 the respective numbers were 1,875, 15,736, and 17,611.)

The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 812 names (758 in 1920). Six hundred and sixty-seven cases of alleged infringement of the Pharmacy Acts were investigated (674 in 1920), and in 143 cases (157 in 1920) proceedings were instituted. The number of shops investigated with a view to ascertaining whether a certificate of qualification was exhibited was 1,674 (1,846 in 1920).

The President, in moving that the report be entered on the minutes, said he thought the Council would agree that it showed the satisfactory position of the Society. There had been a substantial increase in the names added to the register (925). As far as the membership of the Society was concerned, they would note with satisfaction that it stood at the highest point ever reached in the Society's history, so that it was eminently satisfactory from that point of view.

The Vice-President seconded the resolution, which was carried without further comment.

CORRESPONDENCE

The secretary read a letter from the Pharmaceutical Council and Society of Western Australia conveying seasonable greetings for 1922. The President's suggestion that he should return reciprocal greetings was cordially adopted.

The Sheffield Pharmaceutical and Chemical Society wrote enclosing a copy of a resolution passed at a meeting of their council on January 23, when the report of the War Auxiliary Benevolent Fund was considered. This expressed satisfaction with the administration of the Fund, and added that great credit was due to Mr. Parry (chairman of the Fund Committee) for its inception and continued working.

EDUCATION COMMITTEE

The Committee agreed to recognise Grimsby Municipal College and Hull Municipal Technical College for the purposes of chemistry and physics in Part I. of the Qualifying examination.

The Committee had received a circular letter from the Conjoint Board of Scientific Societies announcing their intention of publishing a world list of scientific periodicals which contain the results of original scientific research. The Committee recommended that the Society should subscribe for one copy of the list.

The report was adopted.

FINANCE COMMITTEE

The financial statement is summarised as follows: Receipts since the last meeting, including a balance of £733 19s. 2d., amounted to £8,496 14s. 11d., comprising the following items: Subscriptions, £5,810 8s. 9d.; examination-fees, £3 5s.; registration-fees, £149 2s.; restoration-fees, £2 2s.; penalties, £31 10s. 6d.; "Pharmaceutical Journal" publishing department, £700; "Pharmaceutical Journal" subscriptions, £162 4s. 6d.; School of Pharmacy fees and deposits, £27 6s.; School of Pharmacy Board of Education grants, £639 4s.; interest on investments, £237 0s. 6d.; sundries, 12s. 6d. After deducting £5,105 1s. 11d. for payments ordered at the last meeting and £3,000 transferred to deposit account there was a balance of £391 13s. The other balances were: Benevolent Fund (current account), £248 16s. 5d.; Benevolent Fund (donation account), £32 13s. 10d.; War Auxiliary Benevolent Fund, £80 6s. 11d.; Orphan Fund, £24 4s. 1d. The report recommended that accounts amounting to £2,870 0s. 2d. be paid and that the action of the secretary in making payments amounting to £622 2s. 8d. be approved.

The Committee considered a report from the Society's surveyor that two of the houses on the Shortland's estate were in a bad condition and that the tenants had ignored the notices served upon them to carry out the necessary repairs. It was recommended that the secretary be authorised to take such legal proceedings as might be necessary. The Committee recommended that £2,000 of the amount standing to the credit of the Orphan Fund on deposit account be invested in Funding Loan.

The treasurer, referring to the foregoing recommendation, said that a wish was expressed at the meeting of the Committee on the previous day that they should increase the capital of the Orphan Fund. At present there was £500 invested in Consols, but the Committee felt that if the Fund became more widely known the results would be beneficial. The grant from the Board of Education of £639 was rather disappointing, being much less per head than last time. He also called attention to the satisfactory way in which subscriptions had been received. In January 5,631 members paid their subscriptions, as compared with 2,185 in the same month last year, an increase of 160 per cent.

Mr. Rowsell expressed satisfaction at the fact that the Committee had been considering the matter of the Orphan Fund. He was glad that they were capitalising the amount mentioned in the report, and regarded the addition of the subscription to the Orphan Fund to the ordinary form as an excellent arrangement which had done a great deal of good. He wished to take the opportunity of commending the Fund to the notice of the pharmacists of the country.

The report was adopted.

BENEVOLENT FUND

The report of this Committee gave details of applications that had been made for assistance, and recommended the payment of nine grants, varying in amounts from £15 to £30.

Miss Buchanan, moving the adoption of the report, mentioned that a special contribution of £8 5s. 2d. had been received from the Wallasey Pharmaceutical Association, being the proceeds of a collection.

The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The report of this Committee, which made recommendations for the payment of five grants, varying from £20 to £50, was adopted without comment.

ESTABLISHMENT COMMITTEE

The report of this Committee dealt with minor domestic matters, and gave details in connection with the library and museum.

This was all the public business.

Associations' Winter Session

Belfast.—A committee meeting of the Ulster Retail Drug Trade Association was held on January 30, when Mr. James Tate occupied the chair; subsequently Mr. J. A. Bingham presided. Other members present were : Messrs. S. Suffern, R. Kells, J. Dundee, E. J. Roberts, J. C. Culbert, J. Moffet, W. J. Rankin, and the secretary. Correspondence was read from J. & J. Haslett, Ltd., Fassett & Johnson, Ltd., Jas. Guthrie, C. Sweeney, Alfred Willington, and S. Gibson, J.P. Important matters relating to patent medicines on the Proprietary Articles Trade Association list and also local trade requirements in the near future were discussed.

Exeter.—A meeting of the Pharmaceutical Association was held on January 25, Mr. W. J. Shepperd (Vice-President) in the chair. It was resolved that the annual dinner be held on April 26. The statement by the Pharmaceutical Society on the work of the War Auxiliary Benevolent Fund was summarised by Miss E. Buchanan, who spoke also on the Society's scheme for establishing local branches. Arrangements for an early meeting of representatives of associations in the South-Western area were discussed. Mr. A. C. Milton again raised the question of the danger of filling camphorated oil into customers' non-poison bottles. After a discussion, the secretary was instructed to write to chemists urging that all bottles other than "poisons" be refused.

Lancashire (N.E.).—The annual meeting of the North-East Lancashire Chemists' Association was held on

January 26, Mr. R. H. McMyn (President) in the chair. Mr. Fred Law, in presenting the accounts, said they had a credit balance of £37 0s. 8d. During the year they had contributed by voluntary subscriptions £17 12s. 6d. towards the presentation fund to Mr. Hy. Whittaker, the secretary of the Blackburn Insurance Committee. The accounts of the Blackburn Pharmaceutical Committee showed expenses amounting to £99. From the Drug Fund there was received £98 17s. The accounts were adopted. Mr. Law read correspondence which included a copy of the report of the War Auxiliary Benevolent Fund, and a letter from the Retail Pharmacists' Union on unprofitable proprietary preparations. Mr. McMyn then gave his review of the year, which, on the whole, had been fairly quiet. He urged members to withhold any adverse criticism which they might be tempted to make regarding the Retail Pharmacists' Union, and to realise that this was quite a new organisation, with immense capabilities, and possibilities for future development. The election of officers for the ensuing year resulted as follows : President, Mr. Ralph Pickup; Vice-President, Mr. McMyn; Treasurer, Mr. J. Isherwood; Auditor, Mr. Holt; Secretary, Mr. Fred Law; Committee, Messrs. R. L. Gifford, J.P., Haslam, Yates, Dobson, Lightbown, and Pomfret. Mr. Isherwood moved a resolution congratulating Mr. Law on his appointment as secretary of the Chamber of Trade. It was agreed to reduce the subscription for the ensuing year to 10s. per member. Mr. R. L. Gifford, J.P., said chemists would shortly have to deal with the formation of local associations as branches of the parent society in London. It would have been desirable, therefore, to defer any settlement of the subscription, though he thought that 10s. per year was sufficient for all ordinary purposes. He did not see the necessity for the scheme. There was a discussion on the question of the monthly price lists. Mr. Gifford said he regarded the new proposition to publish an official price list as a very good move, and one worthy of every support. It was decided to institute further inquiries, so as to ascertain exactly what are the intentions of the R.P.U. It was decided to organise a whist-drive and social in February or March, the committee to be Messrs. Pickup, McMyn, Isherwood, and F. Law.

Scarborough.—The Scarborough Junior Pharmacy Club held the first annual meeting recently, when the report of the year's work was read. The balance sheet showed an income of over £60, with a balance in hand of 2s. 10d. A loss had been sustained over one whist-drive and dance and £2 2s. had been donated to the Pharmaceutical Society's Benevolent Fund. It was decided to drop the word "Junior" from the title of the club and to admit a limited number of local pharmacists as honorary members, these honorary members to be elected by vote each year at the annual meeting. It was also decided to reduce the subscription by 2s. per annum. The following were elected officers for the year : President, Mr. H. R. Allanson; Secretary, Mr. R. Glenton; Treasurer, Mr. H. M. Hirst; Assistant Treasurer, Mr. D. Coates; Committee, Miss K. Wrightson and Messrs. G. E. Bird, A. Barnforth, J. Dale, and C. Whitfield. The evening terminated with a musical programme and dancing.—The Scarborough Pharmacy Club held an interesting discussion on January 22, when Mr. H. M. Hirst, M.P.S., F.R.H.S., gave an address on *Incompatible and Inelegant Prescriptions*.

West Ham.—At a meeting of the West Ham Association of Pharmacists, on January 19, a vote of condolence with the family of the late Mr. J. E. Eastman, one of the founders of the Association, was passed. Mr. Raynor then read a paper on *Dante and his Times*, which was much appreciated. He pointed out that Dante had only a remote connection with pharmacy, being a member of the Florentine Guild of Apothecaries. In his times, however, the laws relating to the qualifications necessary to be held by those practising the healing and surgical arts in Florence and Venice were very stringent. The President (Mr. Clifford Jones), in moving a vote of thanks, said that he hoped similar papers would be forthcoming in the near future.

Retail Pharmacists' Union

Exeter.—A meeting of the Retail Pharmacists' Union (Devon Branch) was held on January 25, Mr. D. A. Evans presiding. Mr. J. D. Turney (Plymouth) thanked the members on behalf of the Plymouth Association for the help given in support of their attitude towards a proprietary firm. Correspondence dealing chiefly with unprofitable proprietaries was considered, and decisions as to further action were taken.

Leamington.—The Warwickshire Branch (No. 39) met on January 11, when it was decided to carry out the instructions of the Union in discouraging the sale of certain unremunerative proprietary articles. The branch strongly urged the Union to issue a retail drug price list free of charge to members of the Union.

Executive Meeting

A MEETING of the executive of the Retail Pharmacists' Union was held on January 24, at 19 Tavistock Square, Mr. J. Keall in the chair. There were also present : Messrs. Clarke, Currie, French, Gillegan, Hague, Hardy, Hindle, Jackson, Keith, Lloyd, Martin, Matthews, Melhuish, Milner, Pickard, Ridyard, Rowsell, Walshaw, Wolff, and Young.

STANDARDISATION OF BANDAGES.—The secretary reported that the Pharmaceutical Society's Codex Committee dealing with this subject had twice met, and that he and Mr. Matthews had attended on behalf of the R.P.U. Mr. Matthews described the proceedings at the interview, and stated that among other things it was recommended that the only standard of absorbent cotton-wool which should be fixed was that it be readily and completely absorbent.

MARKING "DANGEROUS" DRUGS.—The following resolution was passed :

That manufacturers be asked to place on the outer cover of packages of articles within the Dangerous Drugs Act Regulations a uniform mark such as a triangle with the letters "D.D.A." and that a copy of this resolution be sent to the trade journals, P.A.T.A. Manufacturers' Section, and the Drug Club.

NATIONAL HEALTH INSURANCE.—The executive considered the position of the negotiations with the Ministry of Health. It was reported that a joint deputation from the R.P.U. and the Company Chemists' Association had been received by the Ministry, but that neither side had receded from the original position taken up, the Ministry on the one hand insisting upon the necessity for a reduction, and the chemists' representatives on the other hand stating that they could not recommend chemists to accept a reduction. Representatives of the Company Chemists' Association were present while the executive discussed the further action which should be taken in connection with the deadlock which appeared to have arisen. It was unanimously decided that the secretary be instructed to write to the Ministry reaffirming the previous decision that chemists could not be recommended to accept a reduction, and at the same time to ask for an interview with the Minister of Health in order that the chemists' views might be placed before him personally.

INFANT-WELFARE CENTRES.—Mr. Wolff informed the executive that the directors of Glaxo had decided to supply unbranded dried milk to clinics in future. He added that he hoped he could rely on the drug trade to back up his company, especially as this step was a speculative one, and might prove disadvantageous to the company. It was resolved that Mr. Wolff be thanked for his attempt to deal with this difficulty, and that every effort be made to get proprietors of similar goods to follow the Glaxo proprietors' example.

OTHER MATTERS.—The executive decided to hold a conference of representatives from branches and sections in connection with the annual meeting. The draft annual report and balance-sheet for submission to the annual meeting to be held on March 29 was approved. The executive gave the secretary authority to make arrangements for holding the annual election of the executive in March.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres

London.—Sir Thomas Neill (chairman) presided at the monthly meeting of the Insurance Committee on January 26, when the finance sub-committee recommended that, subject to the consent of the Minister of Health, the sums of £3,000 and £2,550 respectively be allotted for the administrative expenses of the Panel and Pharmaceutical Committees for the ensuing year. This was adopted. The medical benefit sub-committee reported that on December 31 690 chemists in general business, 43 in institutions, and 23 other persons were supplying drugs and appliances. Since their last report the names of ten persons had been included in the list of persons supplying drugs and appliances, while the names of six had been removed from the list. The pharmaceutical service sub-committee, reporting on a case adjourned from October, stated that the allegation made by the insured person was that a chemist refused to dispense a prescription for him. The chemist, it was stated, on noticing that the bottle bore the label of another chemist, advised the messenger to have the medicine dispensed by him. The prescription was dispensed on the following morning by another chemist. The chemist said he had then about eight or ten prescriptions waiting to be dispensed, and he asked the messenger to leave the prescription and return for the medicine. She became abusive and stated that the doctor had said that the medicine should be dispensed at once. He denied that he declined to dispense the script. In her letter intimating her inability to attend the insured person expressed a wish to withdraw from the case, and the sub-committee decided that the allegation had not been sustained. The report was adopted. Reporting on a complaint made by an insured person that he had experienced difficulty in connection with a prescription which he presented to a firm of chemists, the pharmaceutical sub-committee said the allegation was that he was told by the assistant that he would require a 1-pint poison-bottle. He eventually succeeded in obtaining three bottles, but the assistant told him that they were not suitable. He obtained the lotion. After hearing evidence the sub-committee decided that the allegation had not been established. The recommendation was adopted. In connection with a complaint by an insured person against a chemist that medicine could not be taken because of the strong smell of turpentine, the chemist stated that his attention was called to the fact that the bottle contained a quantity of fluid which, he was informed, was medicine. This he was asked to pour away. The fluid was turpentine, but as he was suffering from a cold at the time he could not smell it. The sub-committee were of opinion that while the insured person was to blame for sending a contaminated bottle to the chemist, the latter did not take the necessary care in dispensing the prescription. The report was adopted.

Nottingham.—At a meeting of the Insurance Committee on January 24 it was reported that for the quarter ended September 30 prescriptions totalled 69,525, compared with 67,516 for the preceding quarter. Prices of drugs amounted to £1,030 19s. 4d., compared with £986 3s. 3d., and dispensing-fees £1,596 4s. 3d., as against £1,560 3s. 7d. The finance sub-committee reported that the payments for the quarter ended December 31 included £2,797 4s. 8d. on account to chemists.

Sheffield.—A meeting of the Joint Committee of the North-East Midland Prescription Bureau was held recently, and was attended by representatives of the various constituent administrative areas. Mr. M. Addy (Huddersfield) was elected chairman for the ensuing year, and Mr. N. F. Baylis (Nottinghamshire) deputy-chairman. The report of the executive sub-committee on the work of the Bureau for 1921 was approved. The number of prescriptions submitted for pricing was 1,986,193, which constituted a record for the Bureau, their total value being £75,777 11s. 4d. Satisfactory results regarding the standard of the work were shown.

Imports of Pharmaceutical and Synthetic Chemicals

October 1—December 31, 1921

In the table below we give the returns of imports, of pharmaceutical and synthetic chemicals as published in the Customs Bill of Entry, which complete the year 1921. Since the Safeguarding of Industries Act came into operation, however, the Customs method of publishing the import figures has undergone a change for the worse, as there is now no indication given as to the country of origin of all chemicals which have paid the Key Industry Duty. Where goods are entered as "duty free" the

country of origin is mentioned as before. The above returns are, therefore, incomplete, and are actually the chemicals imported, during the past three months, duty free, and, together with the three quarters previously published in the *C. & D.*, record the imports of fine chemicals for the year 1921, excluding duty-paid chemicals. The bulk of the imports was entered in the month of October, before the duties were in active operation, since when there has been a considerable falling-off.

	FRANCE	GERMANY	HOLLAND	BELGIUM	SWITZERLAND	SWEDEN	U.S.A.
Acetylsalicylic acid	...	1,664 <i>l.</i>	—	—	—	—	—
Amidol	...	—	—	—	—	—	17 <i>l.</i>
Amidopyrin	...	—	452 <i>l.</i>	—	—	—	—
Benzaldehyde	...	11 <i>l.</i> 1 cs.	610 <i>l.</i>	—	—	—	—
Benzoic acid	...	158 <i>l.</i>	—	—	—	—	—
Benzyl acetate	...	7 cs.	—	—	—	—	—
Benzyl alcohol	...	93 <i>l.</i>	22 <i>l.</i>	—	—	—	—
Benzyl benzoate	...	—	31 <i>l.</i>	—	—	—	—
Bromide, ammonium	...	220 <i>l.</i>	—	—	—	—	—
" potash	...	264 pkgs. 89 cwt. 65 cwt.	—	—	—	—	—
Bromine	...	766 cs.	—	—	—	—	—
Bromipin	...	135 <i>l.</i>	—	—	—	—	—
Bromoform	...	30 <i>l.</i>	—	—	—	—	—
Butyric acid	...	159 <i>l.</i>	—	—	—	—	—
Caffeine	...	—	—	—	180 <i>l.</i>	—	—
Calcium carbide	...	1,229 cwt.	3,269 cwt.	—	1,600 cwt.	—	—
Calcium glycerophosphate	...	83 <i>l.</i>	—	—	—	—	—
Calomel	...	207 <i>l.</i>	—	—	—	—	—
Carboic acid	...	—	—	—	—	—	40 cs.
Chlorophyll	...	1,281 <i>l.</i>	424 <i>l.</i>	—	—	—	—
Coumarin	...	1,040 <i>l.</i>	—	—	—	66 <i>l.</i>	34 <i>l.</i>
Creosote and salts	165 <i>l.</i>	3 cs.	—	—	—	—	—
Diphenylmethane	...	—	680 <i>l.</i>	—	—	71 <i>l.</i>	2,700 <i>l.</i>
Formaldehyde	...	222 <i>l.</i>	—	—	—	—	—
Formic acid	...	—	3,770 <i>l.</i>	30 <i>l.</i>	—	—	52 <i>l.</i>
Glycerin (crude and distilled)	...	—	—	—	—	—	—
Guaiacol and salts	600 <i>l.</i>	—	—	—	—	—	220 brls.
Heliotropine	...	84 <i>l.</i>	—	—	—	—	—
Hexamine	...	408 <i>l.</i>	—	—	—	—	—
Hydroquinone	...	42 <i>l.</i>	532 <i>l.</i>	—	—	—	—
Luminol salicylate	...	300 <i>l.</i>	—	—	—	—	—
Magnesia calcined	...	36 <i>l.</i>	259 <i>l.</i>	—	—	—	—
" carbonate	...	64 <i>l.</i>	—	—	—	—	—
Methyl salicylate	...	125 <i>l.</i>	—	—	—	—	—
Milk sugar	...	—	—	—	—	—	2,595 <i>l.</i>
Musk, artificial	...	—	70 <i>l.</i>	—	—	—	—
Nicotine sulphate	...	—	190 <i>l.</i>	—	—	—	—
Oxalic acid	...	954 <i>l.</i>	347 <i>l.</i>	257 <i>l.</i>	—	—	—
Paraldehyde	...	159 <i>l.</i>	—	—	—	—	—
Perfumery, synthetic	200 <i>l.</i>	789 <i>l.</i>	73 <i>l.</i>	—	—	—	—
Pharmaceutical chemicals	—	1,236 <i>l.</i>	—	—	—	—	—
Phenacetin	...	1,327 <i>l.</i>	—	—	—	—	—
Phenazone	...	30 <i>l.</i>	—	—	—	—	—
Phenolphthalein	...	201 <i>l.</i>	—	—	—	—	128 <i>l.</i>
Phenyl acetic aldehyde	...	15 <i>l.</i>	21 <i>l.</i>	—	—	—	—
Photographic chemicals	...	40 <i>l.</i>	—	—	288 <i>l.</i>	—	—
Piperidine	...	40 <i>l.</i>	—	—	—	—	—
Potash, caustic	...	241 drms.	27 drms.	—	—	41 cs.	—
" chlorate	...	279 cks.	—	60 kgs.	—	—	—
" cyanide	...	192 <i>l.</i>	—	—	—	—	—
" permanganate	...	265 <i>l.</i>	—	—	—	—	—
" sulphoguaiacolate	...	45 <i>l.</i>	—	—	—	—	—
Quinine and salts	...	25 <i>l.</i>	—	5,600 oz.	91 <i>l.</i>	—	6,500 oz.
Safrol	...	7,877 oz.	—	—	7,500 oz.	—	—
Salicylic acid	...	12 pkgs.	—	—	—	—	—
Salol	...	352 <i>l.</i>	—	—	—	—	—
Saponine	...	93 <i>l.</i>	—	—	—	—	—
Silver nitrate	...	164 <i>l.</i>	—	—	—	—	—
Soda, benzoate	...	8,420 <i>l.</i>	420 <i>l.</i>	—	—	20 <i>cl.</i>	—
" hyposulphite	...	30 <i>l.</i>	—	—	—	—	—
" manganese	...	351 cwt.	—	—	—	—	—
" salicylate	...	396 tons	—	—	—	—	—
Sulphonal	...	15 cwt.	—	—	—	—	—
Tannic acid	...	96 cwt.	—	—	—	—	—
Terpineol	...	30 <i>l.</i>	—	—	—	—	—
Theobromine	...	100 <i>l.</i>	—	—	—	—	—
Thymol	...	—	—	—	—	—	—
Trional	...	34 <i>l.</i>	—	—	—	—	—
		893 <i>l.</i>	—	—	291 <i>l.</i>	—	—
		108 <i>l.</i>	—	—	—	—	—
		100 <i>l.</i>	—	—	—	—	—
		—	—	—	—	210 <i>l.</i>	—

The following are among the principal imports from other countries : Austria : Silver nitrate, £2,216 ; British India : Eugenol, £320 ; Canada : Formaldehyde, £3,123 ; Czechoslovakia : Soda hyposulphite, 19 tons ; silver

nitrate, £1,966 ; potash, caustic, 156 cwt. ; calcium carbide, 822 cwt. ; Finland : Calcium carbide, 473 cwt. ; Norway : Calcium carbide, 471 tons.

the part of some refiners is very keen and prices are widely divergent. Whereas leading refiners ask £24 for their product, others take orders at between £22 and £23, according to quantity, while raw platinum is called £20 to £21 per oz. The difference between platinum and the substitute palladium is much wider than it has been for years past, the latter being quoted £13 per oz. for raw metal.

SAFFRON.—Reports from Spain point to a serious shortage, especially of the finer qualities, which are almost cleared out, and buyers are picking up whatever they can get. It is impossible to estimate present spot holdings, but a general advance in price is to be anticipated shortly. Meantime only the finest qualities on the spot are firmer.

SEEDS.—The following are current spot quotations: Spanish ANISE is dearer at 78s. per cwt.; Russian is unchanged at 70s. CANARY SEED is firm and active, with sales of Mazagan at 72s. 6d. to 75s. per quarter; Larache is 60s. to 65s.; La Plata, 57s. 6d. Stocks are decreasing. MOROCCO CARAWAY is quoted at 25s. per cwt., and good Dutch 35s. Sound CORIANDER, 28s. 6d.; wormy, 13s. to 22s. CUMIN SEED is still scarce at 55s. per cwt. for fair quality. DILL SEED is unobtainable on the spot. FENNEL SEED is 42s. 6d. per cwt. in Liverpool. FENUGREEK SEED is 11s. to 11s. 6d. per cwt., as to quality. MANCHURIAN HEMP SEED is 18s. per cwt. Morocco LINSEED is 24s. 6d. per cwt. on spot. Good English yellow MUSTARD SEED is 35s. per cwt.

SENEGA remains unchanged at 3s. 11d. per lb. on the spot.

SHELLAC is steady, with spot sales of usual standard TN Orange quality at 325s. to 330s. per cwt. Fine second Orange is 355s. to 360s., superfine 410s., RLI 390s., AC cakey 280s., and GAL 260s. The sales for delivery include March at 310s. to 315s., and May 297s. 6d. to 302s. 6d.

STARCH PRODUCTS are dull. Pure English rice crystals offer at £36 per ton; maize starch-powder has sellers at £13 per ton spot. Spot sellers of Dutch farina quote 27s. per cwt., Danish 26s. spot, and Japanese for January-March shipment is 23s. 6d. per cwt. c.i.f.

WAX (VEGETABLE).—Japanese on the spot is quoted at 95s., and January-February shipment is 84s. 6d. per cwt. c.i.f. Carnauba is offered at 82s. 6d. for fatty and 75s. for chalky.

Essential Oils

CEYLON citronella continues in demand and is dearer. Cassia and Bourbon vetivert are dearer. Star anise oil is steadier after sales had been made below the open-market figure. Camphor, clove, and gingergrass are easier. Japanese mint is tending easier. Java vetivert oil is cheaper, and Cognac oils are lower.

ANISE (STAR).—“Red Ship” is steadier at 2s. to 2s. 1d. per lb., on the spot. Sales had been made at less, but cheap offers have been withdrawn. The c.i.f. price is 2s. 1d.

BERGAMOT is quiet at 21s. per lb., spot, with some holders willing to shade. The price to come forward is 19s. to 20s. c.i.f.

CAMPHOR.—White, essential, is cheaper on the spot in large drums at 110s. per cwt. and cases at 115s. This week's arrivals include 150 drums and 125 cases from China.

CARAWAY.—Dutch is steady at from 7s. to 7s. 3d. per lb. for rectified.

CASSIA is firm. For 80 to 85 per cent. c.a. in small lots 4s. 8d. per lb. has been paid; there are buyers at this price, although 4s. 9d. is wanted. The c.i.f. price is cheaper at 4s. 1½d. For 90 to 95 per cent. c.a. 5s. 6d. to 5s. 9d. is quoted.

CINNAMON LEAF.—Ceylon is firm at from 5½d. to 6d. per oz. High-testing oil for March shipment is 9s. 9d. to 10s. c.i.f., which is easier.

CITRONELLA.—Ceylon is dearer at 2s. per lb. for ordinary. The c.i.f. price is 1s. 10½d. Java is 3s. per lb. spot for high-percentage oil; for 85 per cent. 2s. 11d. is quoted. Burmese is firmer at about 3s. 1d. spot.

CLOVE.—English distilled is easier at 11s. per lb., less 2½ per cent. A consignment of Mysore distilled is quoted at 10s. 3d. c.i.f. in quantities, net.

COGNAC.—In one direction *white* is offered at 65s. per lb. spot. *Green* is obtainable at 35s. Artificial (oenanthic ether) is 5s. 6d.

EUCALYPTUS continues in fair demand on the spot at 1s. 6d. per lb. for 60 to 65 per cent. cineol and 1s. 7d. to 1s. 7½d. for 70 to 75 per cent.

GERANIUM.—Spot quotations of Bourbon continue to advance, and up to 23s. per lb. is asked. There are still sellers at less, however. Algerian is obtainable at from 27s. per lb. spot upwards.

GINGERGRASS.—“Insoluble” is quoted easier at 9s. to 9s. 6d. per lb.

LEMON is unchanged at 2s. 10d. to 3s. 1d. per lb. c.i.f., and spot continues at from 2s. 9d. to 3s. 3d.

LEMONGRASS.—Cochin is quiet and unchanged at 3d. per oz. spot; the price to come forward is 2½d. c.i.f.

MINT.—Japanese, dementholisised, Kobayashi-Suzuki is tending easier at 5s. to 5s. 3d. per lb. spot, and 5s. c.i.f. to arrive. Japanese natural (not dementholisised, containing 70 to 73 per cent. menthol) is offered on the spot at 15s. 6d. per lb., in original cases, and less for quantity.

ORANGE.—Sicilian, sweet, is as last quoted, 12s. to 12s. 3d. c.i.f., and on spot at from 12s. 6d. to 13s. 6d.

OTTO OF ROSE.—“Own distillation,” Bulgarian is quoted at 40s. per oz., spot, with other qualities offering down to 25s. Anatolian is obtainable at 30s. for good quality. For French 60s. is asked.

PALMAROSA is offered, in pots, at 15s. 6d. per lb., spot. Nine pots have arrived in London from British India.

PATCHOULI.—Mysore oil is being offered on the spot in 5-lb. original packages at 42s. 6d. per lb. Best Singapore quality is unchanged at about the same figure.

PEPPERMINT.—American tin oil is unchanged on the spot at from 9s. 3d. to 9s. 6d. per lb. The c.i.f. price is about 8s. 8d.

PINE.—Pine-needle oil is quoted at 2s. 9d. per lb. spot. *Pinus pinifolia* is offered at 10s. 6d.

SPIKE.—Spanish is unchanged at 4s. to 4s. 3d. per lb., spot. There are sellers, for quantity, who can shade this.

VETIVERT.—Bourbon is quoted higher at from 23s. to 24s. per lb., according to seller. Java is cheaper on the spot, following fresh arrivals, at 50s. to 55s. per lb.

Pharmaceutical Chemicals, etc.

DESPITE the fact that ruling prices on the spot are much below that at which stocks could be replenished, the market can only be described as weak. This fact is no doubt solely due to the very poor amount of business passing and the urgent necessity of clearing stocks held by weak holders. A few further declines in values are recorded again this week, with the general report stating occasional business on limited lines only. Sodium salicylate is steadier, as the cheaper parcels of carbolic acid have been mostly absorbed, and Continental makers are very firm. Prices of bromides from makers in Germany continue much above the London spot parity, and are too dear to permit of business. Phenazone is steadier, but phenacetin has been sold at lower prices.

ACETANILIDE is fairly plentiful on spot at 1s. 4d. per lb., with a few sales.

AMIDOPYRIN is much steadier now at 18s., but still slow to move.

ASPIRIN on good quotations is at 3s. per lb.; there may be some lots at slightly less.

ATROPOINE SULPHATE is unchanged at about 18s. per oz., and is neglected.

BENZONAPHTHOL is still at 6s. 6d. per lb.; no business reported.

BETANAPHTHOL remains as weak as ever, and is nominal at 3s. per lb. for resublimed.

BROMIDES.—Genuine holders' quotations are steady at 10½d. per lb. for ammonium. Potassium, crystals and granular, varies on offer from 8d. up to 9d. per lb. Sodium on spot is steady at 9d. to 9½d. per lb.

CALCIUM LACTATE is in good supply at 2s. 3d. per lb.; this seems an unsteady market.

CHLORAL HYDRATE remains at 5s. per lb., duty paid, with little movement.

CITRIC ACID, B.P., crystals, is nominal at 2s. per lb., less 5 per cent.

COCAINE.—Hydrochloride can still be had at 10s. 6d. per oz. to regular consumers, but as the cheaper parcels have

practically come to an end recourse will have to be had to duty-paid lots, for which a correspondingly higher price will be asked.

CREAM OF TARTAR is steady and in fair demand at 120s. to 125s. per cwt., according to quantity and makers' prices quoted.

CREOSOTE, B.P., remains dull at 3s. 3d. to 3s. 6d. per lb.

CREOSOTE CARBONATE holds good at 10s. 6d. per lb., with small inquiry.

GUAIACOL CARBONATE varies from 11s. 6d. to 12s. per lb., but the demand is very light.

HEXAMINE remains quiet in demand, with plentiful offers at 3s. 6d. per lb.

HYDROQUINONE remains nominal at 4s. 3d. per lb.; no demand.

MERCURIALS.—The British makers have made no alteration in their prices as yet, as it is difficult to fix a basic rate for mercury. The following prices (per kilo.) are quoted by German makers f.o.b. Hamburg, including packing and export licence : Hydrarg. ammon. chlor. pulv. subt. Ph.G. 5, M. 364; hydrarg. corros. pulv. Ph.G. 5, M. 277; hydrarg. iodid. rub. Ph.G. 5, M. 1,646; hydrarg. subchlor. Ph.G. 5, M. 364; hydrarg. iodid. flav. Ph.G. 5, M. 1,528; hydrarg. oxycyanid. Ph.G. 5, M. 480; hydrarg. cyanid. cryst. Ph.G. 5, M. 392; hydrarg. oxyd. rub. Ph.G. 5, M. 433; hydrarg. oxyd. flav. Ph.G. 5, M. 439; hydrarg. salicyl. Ph.G. 5, M. 381; hydrarg. sulphid. M. 346.

METHYL SALICYLATE continues dull and not at all firm at 2s. 3d. per lb.

METHYL SULPHONAL holds up at about 18s. per lb.

PARAFORMALDEHYDE has been in very little demand, and some holders are inclined to shade the price of 3s. per lb.

PARALDEHYDE remains weak, with still only smallest demand; 1s. 7d. to 1s. 9d. per lb., easy.

PHENACETIN has been undermined by some very cheap sales in the region of 4s. 9d. per lb., but no offers now being made below about 5s. 3d. per lb.

PHENAZONE seems to have recovered somewhat owing to the clearance of some second-hand parcels, and averages about 7s. 3d. to 7s. 6d. per lb.

PIPERAZINE remains slack at 4s. per oz.

POTASSIUM IODIDE.—The exports from Japan during October amounted to 669 kin, valued at 4,280 yen. During the ten months ended October 31 they were as follows :

	1919	1920	1921
Kin	94,866	16,761	14,613
Yen	550,041	140,453	96,004

Of Crude iodine 2,466 kin, valued at 20,248 yen, was exported during October, and the exports for the ten months ended October 31 were :

	1919	1920	1921
Kin	16,954	12,279	12,509
Yen	115,963	86,169	80,696

POTASSIUM PERMANGANATE is now offering easier at about 9d. to 9½d. per lb. for B.P. material.

RESORCIN is quoted at 7s. per lb. on a weak and dull market.

SACCHARIN.—Prices in bond for export have been reduced by makers and stand at from 9s. to 12s. 6d. per lb., according to quality and destination, for 550 pure.

SALICYLIC ACID, on quotation, is weak at about 1s. 5d. per lb.

SODIUM BENZOATE is unchanged but inactive at 1s. 6d. per lb.

SODIUM DIETHYLBARBITURATE has sellers as low as 18s. 6d. per lb.

SODIUM SALICYLATE is steadier, and one of the leading Continental makers is holding firm at 2s. 3d. per lb.; finest crystals have been sold at 2s. 6d.; second-hand holders quote slightly under these figures. As the prices of the cheap carbolic acid ex-Government stocks have mostly gone into consumption, it is anticipated that higher prices will operate for sodium salicylate.

SULPHONAL is quoted at last week's figure of 15s. 6d. per lb.

TANNIC ACID.—Leviss holds firm at 5s. 3d. per lb. despite small inquiry.

TERPIN HYDRATE is quoted on a weak and flat market at 3s. 6d. per lb.

THYMOL is steadier at about 22s. to 23s. per lb.

Heavy Chemicals

London, February 1.

THE one or two good features in the market for industrial chemicals commented upon in last week's report continue to hold good; acetic acid and sodium prussiate standing firm. Caustic soda on the spot is somewhat easier, and permanganate of potash and oxalic acid are cheaper. Business has been very spasmodic.

ACETIC ACID continues very strong, and the limited stocks on hand are well inquired for. 80 per cent. pure is about £46; 80 per cent. technical. £45; 98 per cent. glacial, about £50, on spot London wharf.

ACETONE is unchanged and still slack at £80 per ton for British Government specification.

ARSENIC.—The demand continues very dull, the quotation named for best white Cornish powder being £40 delivered London, but Continental is being offered at well under this. Second-hand Cornish is understood to be obtainable down to £38. There is no Grecian reported offering at present.

BARIUM CHLORIDE (98 to 100 per cent.), in casks from home makers, is unchanged at £15 per ton. Spot Continental is offered at about same figure.

BARYTES is steady at £4 10s. np to £6 10s., according to quality. A limited demand continues.

BLANC FIXE has been quiet, but is steady at £22 10s. per ton.

BLEACHING POWDER (35 to 37 per cent.) from makers is quoted at £14 per ton to home consumers only. Spot parcels are offering easy at same figure.

BORIC ACID and **BORAX** from makers and on the spot are quoted at level figures as stated in last report. Demand is very limited.

COPPER SULPHATE.—The export demand is reported as being of a more general character by manufacturers, who have done a fairly regular business for some time past. The quantities wanted are usually restricted, but inquiries have been coming along from various countries which had been out of this market for a long time. In spite of the further weakness in the metal, prices have not been much affected, now varying from about £27 10s. up to £29 10s. per ton f.o.b. Liverpool, less 5 per cent. for casks. On this basis makers have doubtless a fair margin of profit, since working costs have been reduced to some extent. The export movement is expected to show a further recovery, in spite of very keen Italian and German competition.

FORMALDEHYDE (40 per cent.) on the spot is now quoted at £78 per ton ex London wharf; inquiry very small.

GLAUBER'S SALT is nominal on an idle market at £5 10s. per ton for commercial quality in bags.

LEAD ACETATE on spot is weak and neglected at—brown broken, £35 10s.; white crystals, £43; home makers now quoting at—brown, £34; white, £42 10s. per ton.

LITHOPONE holds good at about £24 per ton for 30 per cent. Continental red seal, with continued small inquiry.

OXALIC ACID is now down to the steady figure of 7½d. per lb. ex wharf London, and there have been some fair inquiries lately.

POTASSIUM BICHROMATE ex makers' works is steady at 7½d. per lb., with spot lots still in the region of 8d. per lb.; demand not good.

POTASSIUM CARBONATE is unchanged at £25 per ton for 90 to 92 per cent.

POTASSIUM CHLORATE continues extremely slack, but prices are so far maintained at 5d. per lb.; not a firm market.

POTASSIUM PRUSSIATE from makers : Yellow, 1s. 1½d.; red, 2s. 4d.; spot lots of yellow ex wharf London at 1s. 1½d. per lb.; a steady market.

SALTCAKE remains idle, with price nominal at £5 to £6 per ton.

SODA ASH (58 per cent. light alkali), for home trade only, from makers is £8 7s. 6d. per ton; spot parcels are steady, but in little demand. London, £10 per ton; and North, £8 10s. per ton.

SODA CAUSTIC on the spot is cheaper, and now offered at: 70 to 72 per cent., £23 10s.; 76 to 77 per cent., £25 10s.—in drums, free ex wharf shipping port; makers continue to sell on contract to home consumers only at: 70 to 72 per cent., £22 10s.; and 76 to 77 per cent. at £24 10s. per ton.

SODA CRYSTALS from home makers for home trade only is £6 10s. per ton in bags, carriage paid to destination; some few lots of imported stuff are perhaps a shade easier.

SODIUM BICARBO-NATE.—Refined from makers is steady at £11 10s. per ton; spot lots remain unwanted at £11 to £11 10s. per ton.

SODIUM BICHROMATE from makers is steady at 5½d. per lb.; spot lots remain on offer at about 6d. per lb. Some fair sales of American material have been made on the Continent.

SODIUM CHLORATE continues very slow on the spot at 3½d. per lb.; home makers quote at about 3½d. per lb.

SODIUM HYPOSULPHITE.—Pea crystals, although very slow to move, are steady at £19 10s. per ton in 1-cwt. kegs. Home makers quote at £18 for photographic and £12 for commercial quality (home trade).

SODIUM NITRATE remains slack at about £14 per ton for 96 per cent. refined f.o.r. Liverpool.

SODIUM PRUSSIATE continues very strong and prices are firm; makers are again higher at about 10d. per lb.; spot goods are at 9½d. per lb. ex wharf London, with only limited quantity available.

SODIUM SULPHIDE from makers is unchanged at £22 per ton for 60 to 65 per cent. concentrated in casks; 60 to 62 per cent. solid on spot, same figure; dull.

ZINC PRODUCTS.—The demand for zinc-oxide is moderate but the tendency is none too firm, while there has been another sharp set-back in the price of raw zinc, which has been lately largely affected by the advance in the American exchange. Quotations for zinc-oxide, however, have remained stationary. Zinc dust is chiefly nominal, while zinc ashes are worth about £6 10s. per ton.

COAL-TAR PRODUCTS, ETC.—There is nothing of importance to record in this market. ANILINE OIL is now quoted at 1s. per lb., drums free, and ANILINE SALT is also at this figure, with very small business only. DISINFECTANTS are unchanged at 3s. 9d. per gallon. NAPHTHALENE remains dull, with values far from firm. Crude, £6 to £9; crystals and powder, £16; flakes, £17; balls, £25; candles and tablets, £35 per ton, packages free. PITCH is very firm at 62s. 6d. per ton London. TOLUOL is easier at 2s. 5d. per gallon at works. CARBOLIC ACID crystals are now steadier at about 5½d. per lb. in free drums f.o.b. U.K. Pure METHYL ALCOHOL is steady at £80 per ton. CRESYLIC ACID at makers' works naked is quoted at 2s. 3d. per gallon. CREOSOTE is unchanged and steady at 5½d. per gallon naked. REFINED TAR, naked ex makers' works, is 8d. per gallon.

Fixed Oils, etc.

AMERICAN turpentine and linseed oil are again the two strong features of this market, but, as regards the latter, the advance is possibly only another brief fluctuation due to fairly good business. Values in other products are steadily well maintained, with business slow.

ACID OILS.—Although far from active this market holds steady at last week's prices of: COCONUT, 34s. 6d.; palm kernel, 34s. 6d.; groundnut, 30s. CASTOR OIL.—Ex works Hull prices are quoted unchanged, with not much doing: Pharmaceutical, 55s.; first pressings, 50s.; second pressings, 45s. COCONUT OIL has been slack and values are easier this week: Deodorised, 50s.; Ceylon, 44s.; Cochin, 53s. COTTONSEED OIL.—Deodorised is holding at 47s., but other grades are much easier: Common edible, 41s.; soap-making, 39s.; and crude, 35s. 6d. GROUNDNUT OIL.—Steadier this week and unchanged at: Deodorised, 55s.; crude Oriental, 45s. c.i.f. for shipment. LINSEED OIL.—Since last report this market has experienced quite good

business, and consequently prices have advanced; the market closed very firm at: Naked raw, spot, 33s. to 33s. 6d.; February-April, 32s. 6d. to 32s. 9d.; May-August, 32s. 4½d. to 32s. 9d.; Hull, spot, 32s. 3d. On Wednesday there was a decline to 32s., February-April 31s. PALM-KERNEL OIL.—A quiet market, with values about the same: Deodorised, 47s.; crude, 40s. PALM OIL.—The recent spell of good business has ended and prices are now easier, with the market closing steady: Lagos, 37s. 9d.; softs, 35s.; hards, 30s. RAPE OIL has been quiet, but the higher prices quoted last week still hold good: Refined, 55s. 6d. to 56s.; crude, 51s. SOAP-STOCK GROUNDNUT at 29s. is unchanged and dull. SOYA-BEAN OIL.—Business remains slow and values about the same: Deodorised, 45s.; crude Oriental, 35s. TURPENTINE.—A much better demand has been experienced for American, and prices have daily advanced, closing easier at about 73s. 9d. on spot and February-April 74s. Visible stocks about 14,500 against 48,000 same time last year.

ANIMAL AND FISH OILS, TALLOWS, ETC.—Tallow are again down a point on the week, and continue very sluggish, but the tone of the market is now much better. Fish oils are weak and dull. Other products are unchanged. BONE GREASE has held fairly steady, but has not been at all active. Pale water, 34s. 6d.; brown, 29s. 6d.; benzine, 27s. 6d. ENGLISH LARD OIL remains slack and weak at 65s. to 75s. per cwt. South American NEAT'S-FOOT OIL varies around about 5s. per gallon according to acidity. Pale HORSE OIL is steady but slack at 35s. per cwt. delivered. FISH OILS.—The demand is still far from satisfactory, and the prices quoted are not at all steady. Filtered pale whale, 35s. to 41s.; filtered brown, 32s.; thickened, 39s.; brown whale cake, 18s.; brown stearin, 16s.; refined sperm oil, 39s.; best refined Southern sperm oil, 42s.; seal oil, 24s. to 42s.; water-white seal oil, 45s.; Newfoundland tanked cod oil, 34s. 6d.; English coast cod, 27s. 6d.; thickened fish oil, 38s.; thickened shark oil, 34s.; hardened whale oil, 39s. to 43s.—in barrels, ex wharf, London. Lower prices ex provincial ports. Japanese, in cases c.i.f. for shipment, 21s. 6d. TALLOWS.—Prices are just a shade lower than last week, but the market is now much steadier. Business is, however, very slow. Australian fine mutton, 41s. 6d. to 42s.; fine beef, about 42s.; good mixed, 39s.; and inferior, about 32s.

Lubricating, Burning, Mineral Oils, etc.

VERY little change has taken place in this market, and business continues on limited lines. At the prices quoted below a number of the products are weak, and actual orders could no doubt be placed for a shade less. BENZOL is unchanged, with limited activity at: Pure 3s. 3d. and 90's at 2s. 9d. per gallon in drums. BURNING OIL continues at the old prices of: Crude No. 3, 8½d., No. 2, 8d. per gallon, barrels free. FUEL OIL is steady and unchanged—905 to 910 gravity at £5 10s. per ton, 950 gravity, £4 per ton ex tank. NAPHTHAS are now fairly steady on quotation at: Solvent naphtha, 90 to 160, 2s. 8d. to 2s. 9d. per gallon; heavy solvent naphtha, 90 to 190, 2s. 7d. to 2s. 8d. per gallon. PARAFFIN WAX AND SCALE are steady at 2½d. up to 4½d. per lb. in bags ex wharf, according to melting-point. Scale is firmer on spot at 13d. for 122° to 124° F., and 1½d. forward. PETROLEUM OILS continue strong, with values unchanged. American standard white, 1s. 4½d.; water white, 1s. 5d. PETROLEUM JELLIES.—Values are held up despite poor demand. Snow-white, £74; white, £67; yellow, £33; extra pale yellow, £51; amber, £31; red vet, £24; dark stiff green, £22, barrels free, ex wharf London. SPECIAL OIL for Diesels and motors is unchanged on a steady but slack market at 10d. per gallon, barrels free. WHITE OILS.—No change to record; market dull. Special No. 1, £50; No. 1, £46; No. 1A, half-white, £40, drums free; No. 2, half-white, £35, barrels free—all ex wharf London. LUBRICATING OILS.—Spot and shipping prices are unchanged. Cabled advice to hand from New York states that a conference will be held on February 4 with a view to increasing freight rates to U.K. Pales, £15 to £26 10s.; reds, £20 to £33; dark cylinders, £21 to £39; filtered cylinders, £27 to £45; blacks, £8 to £20, ex wharf London, less 2½ per cent. SOLUBLE OIL, £26.

London Drug-auctions

Commercial Sale Rooms,

Mincing Lane, E.C. 3, February 2.

THE quantity of drugs offered at the auction to-day was smaller than might have been expected after an interval of thirteen weeks since the previous sale, but the charges for putting goods on show at the Port of London warehouses are excessively high and act as a deterrent. There was little buying, however, the demand showing no improvement on the previous auctions, and alterations in value were in buyer's favour. Honey was a top-heavy market, and only a few lots sold at an irregular decline. Cape aloes is plentiful and neglected. Sumatra benzoin is about steady. A few lots of cardamoms sold without material change in values. Matto Grosso ipecacuanha was in slightly improved demand at about 3d. per lb. easier rates. Kola was in large supply and slightly cheaper where business was done. Orange peel of ordinary quality was forced off at low prices. Rhubarb was neglected, and for grey Jamaica sarsaparilla prices were about 2d. per lb. cheaper, while native Jamaica was steady. Tinnevelly senna only sold in retail at generally easier prices. Beeswax was neglected. The following table shows the quantity of goods offered and sold :

	Offered	Sold		Offered	Sold
Aconite root ...	... 14 ... 0		Honey—		
Ajowan seed ...	... 18 ... 0		Calif. ...	... 20 ... 0	
Aloes—			Chilian ...	... 3 ... 0	
Cape ...	(cs.) 190 ... 5		Cuban ...	... 140 ... 0	
	and 56 tins		Jamaica ...	... 785 ... 62	
Curacao ...	... 29 ... 0		New Zealand ...	... 80 ... 0	
Zanzibar ...	... 4 ... 0		San Domingo ...	... 64 ... 0	
Ambergris ... (oz.)	80 $\frac{1}{2}$... 0		St. Lucia ...	... 8 ... 8	
Ammoniacum (tins.)	22 ... 0		West Indian ...	... 166 ... 0	
Ammoniacum (cases)	2 ... 0		Ipecacuanha—		
Anise oil ...	... 25 ... 0		Cartagena ...	... 1 ... 0	
Areca ...	... 183 ... 0		Matto Grosso ...	... 47 ... 27	
Argol ...	... 46 ... 0		Jalap ...	... 7 ... 0	
Arnica flow. ...	... 19 ... 0		Jambul seed ...	... 10 ... 0	
Asafoetida ...	... 21 ... 0		Kamala ...	... 2 ... 0	
Balsam Peru ...	... 4 ... 0		Kino ...	... 3 ... 0	
Balsam tolu ...	... 19 ... 0		Kola ...	... 520 ... 26	
Basil oil ...	... 3 ... 0		Lemon peel ...	... 20 ... 0	
Benzoin—			Lime oil ...	... 12 ... 0	
Palembang ...	... 46 ... 0		Liquorice juice (cs.)	... 2 ... 0	
Siam ...	... 27 ... 0		Manna ...	... 1 ... 0	
Sunatra ...	... 222 ... 60		Musk ... (tin)	... 1 ... 1	
Buchul leaves ...	... 35 ... 0		Musk seed ...	... 10 ... 0	
Calamus ...	... 65 ... 0		Myrrh ...	... 279 ... 0	
Calumba ...	... 624 ... 77		Nux vomica ...	... 36 ... 0	
Cannab. ind. (Bomb.)	6 ... 0		Olibanum ...	... 317 ... 7	
(Afr.) ... 20 ... 0			Orange peel ...	... 165 ... 19	
Cardainous ...	... 575 ... 48		Palmarosa oil (pot) ...	1 ... 0	
Cascara ...	... 1 ... 0		Pistachio nuts ...	... 5 ... 0	
Cassia fistula ...	... 122 ... 10		Plumbago ...	... 3 ... 0	
Cevadilla ...	... 20 ... 20		Rhubarb (Ch.) ...	... 122 ... 3	
Chicle gum ...	... 2 ... 2		Sage ...	... 64 ... 64	
Chiretta ...	... 42 ... 0		Sandarac ...	... 41 ... 0	
Cinchona ...	... 37 ... 0		Sarsaparilla—		
Cinnamou bark oil ...	12 ... 0		Grey Jamaica ...	... 66 ... 38	
Cocculus indicus ...	99 ... 0		Honduras ...	... 19 ... 0	
Cochineal ...	... 13 ... 0		Lima ...	... 5 ... 0	
Condurango ...	... 18 ... 18		Mexican ...	... 4 ... 0	
Copaiba ...	... 20 ... 0		Native Jam. ...	... 15 ... 11	
Cubebs ...	... 56 ... 0		Scammony root ...	... 55 ... 55	
Cuttlefish bone ...	186 ... 6		Senna and pods—		
Damiana leaves ...	12 ... 0		Alex. ...	... 120 ... 5	
Datura stramon. ...	5 ... 0		Mecca ...	... 27 ... 0	
Dragon's blood ...	67 ... 26		Tinnevelly ...	... 311 ... 126	
Elecampane root ...	5 ... 0		Scopolia root ...	... 10 ... 0	
Elemi ... (cs.)	69 ... 8		Squill ...	... 28 ... 3	
Ergot ...	... 29 ... 0		Stramonium (Cape) ...	6 ... 0	
Eucalyptus oil ...	39 ... 0		Strophanthus ...	... 30 ... 0	
Euphorbia pilul. ...	26 ... 0		Tamarinds (W.I.) ...	24 ... 0	
Euphorbiun gum ...	168 ... 64		Tapioca root ...	... 15 ... 0	
Ferri pot. tart. ...	3 ... 0		Tonka beans ...	... 22 ... 3	
Frangula bark ...	22 ... 0		Tragacanth ...	... 149 ... 33	
Galangal ...	25 ... 0		Turneric ...	... 319 ... 0	
Galls ...	... 89 ... 0		Vermilion (cks.) ...	2 ... 2	
Gamboge ...	47 ... 1		Wax (bees')—		
Gingergrass oil (pots)	2 ... 0		Abyssinian ...	... 671 ... 0	
Guaiacum ...	... 20 ... 6		Mozambique ...	... 55 ... 0	
Guarana ...	... 2 ... 0		East African (various) ...	196 ... 0	
Gurjun oil (dms.)	66 ... 0		East Indian ...	... 171 ... 0	
Henbane ...	... 335 ... 99		Jamaica ...	... 37 ... 0	
Henna ...	... 33 ... 0		West African ...	... 7 ... 0	
Honey—			West Indian ...	... 1 ... 0	
Australian ...	208 ... 194				
Brazilian ...	20 ... 0				

The next auction will be held on April 20—eleven weeks hence.

ALOES.—Cape was in large supply, but only five cases sold, comprising fair seconds at 28s. and ordinary seconds at 21s. per cwt. Good firsts were retired at 35s.

BALSAM PERU.—Four cases (cinnamein content), 65 per cent. were limited at 7s. 4d. to 7s. 6d. per lb.

BALSAM TOLU.—Nine cases offered and bought in. Fair was limited at 2s., slightly drossy and partly false-packed at 1s. 9d. per lb.

BENZOIN was steady, 16 cases of fine almondy Sumatra firsts, which is seldom seen on this market, sold at firsts, which is seldom seen on this market, sold at £11 10s.; 8 cases of good fair seconds with streaky almonds, rather barky, sold at £9 to £9 10s. Ten cases of good fair Sumatra seconds sold at £8 15s. per cwt.; 8 cases middling seconds sold at £7; and 10 cases of good thirds, with a few almonds in centre, sold at £5 per cwt., ordinary thirds (without reserve) going at 67s. 6d. per cwt. Seven cases of Sumatra low thirds sold at 37s. per cwt. without reserve. Palembang seconds were held at £4 per cwt.

CALUMBA.—A lot of 77 bags of medium to bold fair natural sorts sold at 7s. per cwt. For a parcel of 10 bags medium to extra bold fine yellow washed and cleaned 50s. was the buying-in price.

CARDAMOMS.—Only a few lots were disposed of at about steady prices, comprising good bold pale Ceylon-Mysore 4s. 6d., bold and medium pale Ceylon-Mysore at 3s. 2d., good medium pale 2s. 9d., tiny pale 1s. 3d., splits, good medium, 2s. to 2s. 1d., good brown and split 1s. 6d. to 1s. 9d. per lb., small brown Indian, badly clipped, 1s. 3d., Mangalore seed 1s. 7d.

CASSIA FISTULA.—Ten baskets fair but dryish West Indian sold at 55s. per cwt., being steady.

CEVADILLA SEED.—A parcel of 20 bags sold without reserve at 45s. per lb.

CHICLE.—Two cases chicle gum lying in Liverpool sold without reserve at 6 $\frac{1}{4}$ d. per lb.

CINNAMON-BARK OIL.—Twelve cases Ceylon were retired at 3s. 6d. per oz.

CONDURANGO.—A lot of 17 bales sold without reserve at 3d. per lb., and one bale ordinary dull sold at 1d. per lb. without reserve.

CUBEBS.—Seven bags fair clean genuine were held at £16 per cwt.

ELEMI.—Four cases sold, without reserve, at 32s. per cwt., and four at 40s. Fair seconds are held at 70s. per cwt.

ERGOT was in fair supply, but no public sales were made. Eleven bags Spanish offered at from 4s. to 4s. 2d., the latter for bold; a further eight bags fair Spanish and Portuguese in another interest were limited at 4s. per lb.

EUCALYPTUS OIL.—Nineteen cases (75 to 78 per cent. eucalyptol) were held at 1s. 7d.; six cases Amygdalina at 1s. 3d.; and four drums Citriodora at 7s. per lb.

EUPHORBIUM.—A parcel of 64 bags of small dusty sold without reserve at from 12s. 6d. to 13s., and sea-damaged at 5s. per cwt. without reserve for account of whom it may concern.

GAMBOGE.—A single case of fair Siam pipe, partly blocky, sold at £28 per cwt.; good bright ditto was retired at £35.

GUAIACUM.—Four barrels of ordinary to fair lump sold at 1s. 3d. to 1s. 8d. per lb; two cases had been sold privately.

GUM KARAYA.—A lot of 33 bags from Bombay sold at 15s. per cwt.

HENBANE.—A lot of 60 bags Egyptian sold without reserve at from 15s. to 20s. per cwt. Private value is about 40s. A lot of 39 bales, more or less sea-damaged, sold without reserve at 5s. per cwt., subject to paying charges.

HONEY.—The large quantity offered met with a poor reception, and only a few lots sold at an irregular decline. Of Jamaica 78s packages offered and 53 sold, comprising cream set at 67s. 6d., palish to pale set

40s. to 62s. 6d., banana set 60s., dark amber liquid 35s., pale set sugary 32s., amber setting 26s., fermented 20s. A line of 194 cases Australian sold at 40s. per cwt. for palish set and setting, and 30s. to 37s. for mixed colours—straw to amber. Eight cases St. Lucia sold at 30s., subject; two casks' dark amber liquid San Domingo went at 23s. The bought-in lots included 140 casks Cuban at 65s. to 75s. for whitish cream set. Eighty cases New Zealand were taken out at 80s. to 85s.

IPECACUANHA sold at a reduction of about 3d. per lb., 16 bales Matto Grosso being disposed of at 5s. 8d. per lb. for fair sound; 5s. 1d. to 5s. 6d. for part mouldy, sea and water damaged; and 4s. 8d. to 4s. 10d. for grease damaged and mouldy. Towards the close of the auction 11 bales, all partly to badly fresh-water damaged, sold at from 3s. 10d. to 4s. 7d. per lb. subject.

KOLA continues in large supply, selling to-day at easier prices: 11 bags fair West Indian realising 2d. per lb. and 15 bags at 2d., subject; 405 bags, mostly West Indian, were bought in, the broker intimating he could not sell under 3d. per lb.

MUSK.—A single tin containing 7 pods, weighing 4 $\frac{1}{2}$ oz. net, sold at 120s. per oz.

ORANGE PEEL.—Various odd lots were forced off, including seven packages common dull to ordinary so-called Maltese strip, at from 2d. to 2 $\frac{1}{2}$ d. per lb., and 10 cases middling strip at 3d. per lb. Two cases fair sold at 4d.

RHUBARB was quite neglected, the sales comprising a single case of medium to bold flat Shensi, with three-quarters pinky fracture at 4s. 6d. per lb., subject to seller's approval. A single case of medium flat High-dried, slightly wormy, sold without reserve at 1s. 10d. per lb. Good flat High-dried was held at 3s. 9d., and good bold to medium flat Shensi with $\frac{1}{2}$ good pinky fracture at 5s., and the same price was asked for medium to bold round Canton with three-quarter fair pinky fracture.

SAGE.—Forty bales of ordinary Dalmatian sold without reserve at 15s. to 18s. 6d. per cwt., and a further lot of Greek in another interest sold without reserve at from 18s. to 19s. per cwt.

SARSPARILLA.—Genuine grey Jamaica was from 2d. to 3d. per lb. cheaper, 34 bales being disposed of at 1s. 11d. per lb. for good fibrous, 1s. 7d. to 1s. 10d. for part mouldy and wormy. Four bales Native Jamaica sold at from 1s. 5d. to 1s. 6d. for dull mixed red and yellowish. Fair red sold at 1s. 7d., and a kid of 1s. 8d. is to be submitted for good red. For Honduras 2s. 6d. was wanted for the best lots, and 2s. 7d. for Mexican.

SCAMMONY ROOT.—A lot of 55 bags of Mexican (test 14 per cent.) sold, without reserve, at from 23s. to 26s. per cwt.

SENNA.—With an absence of good quality there was little demand for Tinnevelly leaf, and where business was done prices were easier. Three bales fair medium clean greenish leaf sold at 4 $\frac{1}{2}$ d., and for inferior small specky 2d. was paid. A lot of 96 bales Tinnevelly sold without reserve at 1 $\frac{1}{2}$ d. to 2d. for inferior small yellowish leaf and 2 $\frac{1}{2}$ d. to 2 $\frac{1}{2}$ d. for middling small and medium. Pods sold at 1 $\frac{1}{2}$ d. to 1 $\frac{1}{2}$ d. for ordinary dark and partly sea-damaged; 4 bales fair pods also sold at 2 $\frac{1}{2}$ d., subject, this quality selling at 3d. privately. Five bales of palish Alexandrian pods sold at 10d. per lb., subject to sellers' approval, being slightly below the limit.

SQUILL.—A lot of three bags yellowish sold at 25s. per cwt. without reserve.

TONKA BEANS.—Good frosted Angostura were held at 4s. 6d. per lb. Two bags part foxy mixed red and black Para sold at 10d., and a case of slightly mouldy mixed realised 8d. per lb., both without reserve.

Cinnamon

The current number (Vol. XIX., No. 3, 1921) of the Bulletin of the Imperial Institute contains an interesting article on cinnamon, its sources, production, and trade. The article gives a detailed account of the production of the bark in different parts of the Empire as well as in foreign countries, and a description of the aromatic oils yielded by cinnamon and related trees. The finest cinnamon bark is produced in Ceylon, where the Portuguese found the tree growing

wild when they arrived in the island in 1505. Since that date Ceylon has been famed for this spice, but owing to the small financial return it gives to the growers much of the area under cinnamon has been replaced by the more profitable coconut and Para rubber. Ceylon cinnamon, moreover, has had to compete, particularly in the Continental markets, with a cheaper product of coarser flavour from the Far East. Cinnamon bark reaches this country in two forms—the ordinary "quills," used as spice, and "chips," which are distilled for the production of cinuammon oil.

Mysore Patchouli Oil.

THE first consignment of Mysore patchouli oil has recently arrived in London, and the consignee, Mr. K. B. Mavankar, 26-27 Hatton Garden, London, E.C., has forwarded us the following interesting report of a comparison with the best Singapore quality. The report is by a well-known London analyst, and indicates that the Mysore product is of excellent quality. It will be noted that Mysore patchouli is soluble in 90 per cent. alcohol:

	Singapore Oil	Mysore Oil
Specific gravity at 15° C. ...	0.9804	0.9925
Optical rotation ...	about -58°	about -68°
Refractive index at 25° C. ...	1.5083	1.5103
Saponification value ...	8.8 ...	6.9
Solubility in 90 per cent. alcohol ...	insoluble	1 in 5 and upwards
Solubility in 95 per cent. alcohol ...	in all proportions	—

These are both genuine oils, of good quality, but the Mysore oil, which is the more soluble sample, is slightly better in odour, having a richer fragrance.

Italian Peppermint and Lavender Oils

CULTIVATORS of the peppermint plant asked from distillers as much as lire 3 per myriagram, the price paid last year. Many distillers refused to pay this price, as there appeared to be little prospect of obtaining a sufficiently remunerative figure for the distilled product. Others, however, had made contracts at this figure. For this reason it is considered unlikely that during 1922 the price of peppermint oil will fall below lire 160 per kilo. The essential oil obtained this year was found to contain 50 per cent. of menthol, and is of excellent quality, being superior to that of last year. The yield of oil was also better than that of previous years, equalising 300 grams per 100 kilos. of mint herb. This was due to the fact that the herb remained short owing to the scarcity of rain in the first period of its growth. It is calculated that the distillers of Vigone, Pancallieri, and neighbourhood obtained this year 30,000 kilos. (30 tons) of essential oil, and that is one-sixth more than during the past season. Owing to the high figures demanded by the collectors and pickers of lavender flowers, who claimed up to lire 500 per ton, certain distillers preferred not to purchase any raw material at all, others, more fortunate, secured the flowers at lire 250 per ton. For such reasons the essential oil of lavender was scarce compared with last year, but will probably follow the movement of the French product.

A Word in Season

READERS who study our market reports from week to week may have noticed that on the few occasions there has been an improvement in demand for any product invariably the price has simultaneously advanced. It seems, therefore, that directly some holders of stocks, whether manufacturers or merchants, detect signs of business coming along they stiffen their quotations. This practice may, if business materialises, produce a little extra profit at the time, but it is bound to scare away the return of a steady flow of trade. "Penny wise and pound foolish" aptly describes these tactics, which are holding up a return of confidence in buyers and actually driving trade, as regards exports, out of the country. Manufacturers and merchants alike would do well to bear in mind that the day of inflated values is passing away, and that these spasmodic attempts to bring about their return will, in the long run, hit them back by way of a continuance of the present depression in trade. Business in resale parcels, as largely practised by some dealers during and directly after the war, was to some extent the direct cause of the high and unreal prices then obtaining. At one time sometimes as many as eight different profits were tacked on to a parcel before it ultimately got to the consumer. The slump the trade is now suffering is the natural after-effect of such methods of business. If manufacturers and merchants will be satisfied with a pre-war rate of profit there will very soon be an improvement in demand.



Letters for this section should be written on one side of the paper only.
The writer may adopt an assumed name for purposes of publication,
but he must in all cases furnish his real name and address to the
Editor.

Drug Analyses Dispute

SIR.—With reference to reports appearing in the *C. & D.*, II., 1921, p. 818, and January 14, p. 41, concerning supplies of drugs to Gorey Union, and adversely reported on by the newly appointed analyst for this Union. At our request, duplicate samples of the four drugs in question were sent by the local medical officers to Mr. B. G. Fagan, F.I.C., public analyst for Dublin. In every instance his reports completely reverse the decisions arrived at by Mr. Keane, A.I.C., and confirm the standard figures obtained from these drugs in our laboratory estimations. We have now requested the Local Government Department to hold an inquiry into the system of analysis existing in this particular Union.

Yours faithfully,
Dublin.
BOILEAU & BOYD, LTD.

Irish Apprentices' Grievance

SIR.—I wish to draw the attention of your Irish readers to what I conceive to be an injustice, as follows : In the case of a deceased pharmacist the widow is permitted to continue the business with a qualified manager, yet the law will not permit that qualified man to give certificates to apprentices under him when they have completed their apprenticeship. This is a gross injustice and ought to be remedied. Seeing that the Pharmaceutical Society of Ireland recognise that a pharmacy may be legally conducted for a widow by a pharmacist, I see no reason why they should not take one step more, and enable that pharmacist to give the required certificates to an apprentice. Why not go the whole hog and do away with the injustice?

Yours truly,
SAMUEL HOGG.
Belfast.

The Chemists' Dental Society

SIR.—The paper read before the Chemists' Dental Society meeting on January 19 calls for a few comments as to what was left unsaid relating to work done—up to the introduction of the last Dentists Bill, which was printed as an agreed measure—by individual and independent effort through organisations of pharmacy, and I venture to state that without that work and the influence of these organisations the position of dental chemists would have been quite different to-day. The mere fact, too, that those practising dentistry were registered under the Pharmacy Acts had a powerful influence in giving them a favourable position in the Dentists Act, 1921, as it did also in the Act of 1878. The work of the Chemists' Dental Society was undoubtedly considerable in keeping the issue alive, but was more or less in the nature of a watching brief for dental chemists. It would be impolitic to write a true and full history of the work done independently of the Chemists' Dental Society, but, if considered important enough, this could and may be done on a more appropriate occasion.

Yours faithfully,
J. Y. FAIRWEATHER,
Late Treasurer and Acting Secretary,
Chemists' Dental Society.

Sydenham Road, London, S.E.

Advertising for the Retailer

SIR.—I must thank your correspondent, "B. B." (*C. & D.*, January 21, p. 68), for his careful and detailed suggestions in regard to advertising for small retailers, and under Section 9 (advertising allowance *pro rata* turnover) he gives me the figure which I really required. Before writing my previous letter I had turned up a good many articles on advertising to see if I could find

some basis of expense, but without result, so that "B. B.'s" 5 per cent. will give me something to work on. At first sight 5 per cent. seems rather high, at any rate for a small man. If you take a business of £40 a week it would mean £2 on advertisement, as present-day profits run nearer 30 per cent. gross than the pre-war 40 per cent.; it would mean that £2 out of £12 weekly gross profits went in advertising. I must say that I had in my mind the cost relative to business increasing, and not to business getting, which I class separately. In the case of a proprietary medicine, where the manufacturer concentrates on one particular article, sometimes his only one, it is a *sine qua non* that he should keep up his advertising well, and every penny spent is worth it; but to an established retailer I rather question, without further trial or experience, whether 5 per cent. spent on advertising one speciality would be such a sound proposition. However, what is one man's meat is another man's poison, and the truth of this dictum was enforced on me when making the search referred to above. I came across an article on advertising, in which the writer said : "If your counter is fitted with bent-glass showcases, sell them at once." I must confess to owning one of these antiquated fixtures, and I would not part with it for a good deal; it is regularly and periodically dressed with nearly as much care as the window, due attention being paid to lay-out, colour, price-tickets, etc., and it is a constant source of attraction to customers waiting for medicine and goods. The direct sales of toilet requisites and sundries made in this way have paid its keep many times over.

Yours faithfully,
RETALLAD (19/9).

Cost of Living Index Number

SIR.—I am pleased to see that "Xrayser II." draws attention to the Ministry of Labour's statistics for the cost of living. How the present index figure is arrived at is a mystery to all ordinary people; my own little budget, insignificant as it may be, with the strictest regard to economy and denial, shows no signs of a drop comparable to the published figure, the amounts for rent, taxes, etc., as "Xrayser II." points out, fully counterbalance any fall in ordinary commodities. Of course, we know that certain articles, such as woollen goods, Army socks bought at a contract price of 2s. 6d. a pair, now on sale to the public at 10*½*d., Government butter released from cold storage at cut-the-loss figures, and so on, show an apparent drop in retail value, but as the taxpayer was, and is, taxed up to the hilt for the payment of these contracts, which were placed regardless of any economic basis, to reduce the index of the cost of living now is merely robbing the same party twice over. What is really required is that the Ministry of Labour should publish two distinct figures—one for rent, rates, etc., and one for food and clothing—and we should then get a true survey of our position.

Yours faithfully,
SUBURBAN (28/1).

Drug Testing

SIR.—The cutting from "The Westminster Gazette" (*C. & D.*, January 28, p. 47) relating how a doctor decided to try a dose of all the *Pharmacopœia* medicaments reminds me of my apprenticeship days, when the proprietor humorously informed each new apprentice that to acquire a familiar knowledge of drugs they should smell and taste each one occurring in their daily dusting. I am afraid, however, that the tasting part stopped short at certain pastille and lozenge jars which bore the brunt of the neophyte's experiments. However, as in the last two *Pharmacopœias*, at any rate, croton oil appears under "oleum crotonis," the heroic doctor must have had a choice selection of *hors d'œuvres* and *entrées* before he arrived at the real meal, and one is not surprised that at that stage he judged he had dined not wisely but too well.

Yours truly,
CROTON TIGLIUM (3/9).

Dispensing Difficulties and Notes

Inhalation Prescription

SIR,—Kindly let me know what is the best method of compounding the following?

Ol. eucalypti ...	... 3ss.
Creosoti ...	... 5ij.
Tr. benz. co. ...	... 3ss.
Mag. carb. levis. ...	... 5j.
Aq. ad ...	... 3ij.

Ft. inhal.

An unsatisfactory product is produced whether ingredients are rubbed up in a mortar or shaken in a bottle. Does it require pulv. gum acacia to set it right?

Yours very truly,

H. L. M. (6/1).

[The usual procedure when compounding an inhalation of this description is to place the magnesia in a mortar and add gradually, with trituration, the medicaments, finally incorporating the water. Essential oils are mainly employed for such combinations, and there is no trouble. In the present case the source of trouble is the compound tincture of benzoin from which some of the resinous constituents are discharged by the water. The remedy is to add some alcohol—four fluid drachms is sufficient. With this quantity a nice preparation is produced. The compound thickens and becomes more homogeneous on standing for a day or two.]

Argent. Nit. in Oil

SIR,—Will you be good enough to tell me how to dispense the following prescription? I have not been able to find a satisfactory method.

Yours faithfully,

"GRADON" (28/11).

Ol. morrhuae ...	... 3j.
Arg. nit. ...	... gr. iss.

Ft. lotio.

Sig.: Use as a dressing to the leg.

[The simplest procedure appears to be to place the silver nitrate in a mortar and add about its own weight of water; when dissolved stir in gradually the cod-liver oil, transfer to a bottle, and dispense with a shake label. In this way the result obtained is quite presentable, and, we should say, would be likely to produce the effect of the active constituent without deterioration.]

Lime Cream Difficulty

SIR,—Would you do me the kindness to recommend a method of dispensing the enclosed prescription, which has baffled us?

Yours faithfully,

E. K. (24/11).

Calaminae prep. ...	... 5ij.
Zinci ox. ...	... 5ij.
Lanolin. ...	... 3j.
Aq. calcis ad ...	... 3vj.

Ft. tremor.

[What is required here is an agent to break up the lanolin which the lime-water will not reduce to a cream, and at the same time something to make the cream "stand up" when produced. Place the calamine, zinc oxide, and lanolin in a warm mortar, and mix intimately with ten grains of saponin; then add the lime-water gradually, with steady trituration. In this way a fairly presentable cream is formed.]

Chloral Formamide in Mixture

SIR,—How should the following be dispensed?

Chloral formamid. ...	... gr. xx.
Potass. brom. ...	... gr. xv.
Aq. ad ...	... 3ss.

I suspended the chloral formamide with mucilage, but a neighbouring chemist added s.v.r., which of course made a mixture altogether different in appearance.

Yours truly,

N. D. D. (5/12).

[In our opinion your procedure was quite correct. There is, however, some ground for the use of alcohol to dis-

solve the chloral formamide. The compound chloramide mixture of the B.P.C. will be a guide to you as to the quantity of alcohol required. Some prescribers assert that the action of chloral formamide is not the same when exhibited in an alcoholic medium as when administered in cachets or suspended in a mixture. While the difference, so far as we know, has not been clearly defined, it may, we believe, be safely assumed that the effect will be more rapid when in alcoholic solution.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics especially new ideas.

Destroying Tree Roots

Ph.C. (20/1), referring to the reply to a correspondent printed in the *C. & D.*, January 21, p. 70, regarding the destruction of tree roots, states that there is a plan of boring auger holes into the stump and filling these with potassium nitrate. After the salt has been absorbed the drier parts of the wood near the holes are fired, and the wood continues to smoulder until every part where the nitre reaches is burnt. This method has the advantage of adding potash to the soil.

Lettering Showcards

J. P. N. (19/1) writes: "Desiring to print a few posters, I found great assistance recently from the use of a box of cardboard letters such as are used in kindergarten schools. These letters are 2 inches high, and the words being set out, all you have to do is to pencil out the letters and fill in afterwards with colour. They are useful and effective, but I do not find anything in the shops except the one style of letter. Perhaps some *C. & D.* reader may know where a variety of types is obtainable, as many other chemists might be glad of the information."

Jaymacksims

IV. WAR BOOM IN PATENTS

1. When beer got thin and scarce the working class took to Horlick and Glaxo for supper. They called it "near beer" in Scotland, so that even they took to milk.

2. The war bonus helped to educate the public into the virtues of Oxo and Bovril, and the children were fed on baby-foods formerly only used by the middle classes.

3. When the prices of these foods come down to pre-war figures, the public will continue to purchase them, even after the war bonus ceases.

4. The working class paid on Friday is hard up by Monday, and lives on penn'orths from small shops, so that the latter cannot help "patents" much.

5. The "co-ops," with seven thousand patent-medicine licences, only want "patents" until they can replace them with their own packed goods. Their expenses are high and "patent" profits too small for them.

6. The patent-medicine maker must always be making new customers to replace those who die off. Therefore, if he wants to hold what he has, he had better stick to the chemist and his window-shows.

Legal Queries

J. B. S. (28/1) has an apprentice, nearly seventeen years of age, to whom he pays 5s. a week as pocket-money, and also employs a shop-boy, aged fourteen and three-quarter years, who is paid 10s. a week. Must either of the lads be insured under the National Health or Unemployment Insurance schemes? [The shop-boy while under sixteen, is not insurable; but the apprentice must be insured under both schemes.]

C. H. (27/1) have two apprentices to whom they pay 10s. and 20s. per week respectively. These payments are looked upon as pocket-money; must the lads be insured? [Both apprentices, if of the age of sixteen or more, must be insured under the National Health and also the Unemployment Insurance schemes.]

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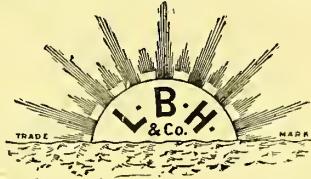
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Acid.	Acetolo-Salicyl., 7 lbs. @ 3/9 lb. Boric Pulv., 1 cwt. @ 78/- cwt. Carbolic, Cryst., 56 lbs. @ 10d. lb. Liquid. 5 lbs. @ 1/2 lb.	In. Buchu Conc., 5 lbs. @ 5/6 lb. Calumbæ Conc., 5 lbs. @ 1/6 lb. Caryop. Conc., 5 lbs. @ 2/1 lb. Cinchon. Acid Conc., 5 lbs. @ 3/- lb. Rhei Conc., 5 lbs. @ 3/3 lb. Senegæ Conc., 5 lbs. @ 3/8 lb. Tart., cryst. or pulv., 7 lbs. @ 1/10 lb.	Pulv. Glycyrrh. Co. B.P. 56 lbs. @ 100/- cwt.; 7 lbs. @ 1/- lb. Quinin. Sulph., 25 oz. @ 3/3 oz.; 4 oz. @ 3/6. Hydrochlor., 25 oz. @ 5/- oz.; 4 oz.
Adeps	Benz., B.P., 28 lbs. @ 1/3 lb. Ammon. Bron., 7 lbs. @ 1/5 lb. Carb., 28 lbs. @ 6d. lb.; 7 lbs. @ 7d.	Iodoform Pulv., 7 lbs. @ 24/- lb. Iodium, Resub. 7 lbs. @ 20/6 lb.; 1 lb. @ 21/- Bellad. Menth., 5 lbs. @ 4/6 lb. Camp. P.B., 9 lbs. @ 2/2 lb. Saponis Meth., 9 lbs. @ 1/9 lb. Tereb. P.B., 5 lbs. @ 1/6 lb.	Rad. Calumb., 1 cwt. @ 36/- cwt.; 7 lbs. @ Jap., Pulv., 7 lbs. @ 3 6 lb. [4d. lb. Rhei, E.I., Pulv., 7 lbs. @ 5/3 lb. Resorcin, 1 lb. @ 10/6 lb.
Antim.	Nig. Pulv., 7 lbs. @ 6d. lb.	Tereb. Acet., 5 lbs. @ 2/- lb.	Sacch. Ust., 10 lbs. @ 11d. lb. Salol, 7 lbs. @ 3/9 lb.
Bals.	Copaibæ, 44 lbs. @ 2/4 lb.; 7 lbs. @ 2/9 lb.	Liq. Ammon. Acet., 1-7. 6 lbs. @ 1/4 lb. Bismuth. Subnit., 3 lbs. @ 11/8 lb.	Soda Bromid., 7 lbs. @ 1/4 lb. Hyposulph. Parv., 1 cwt. @ 30/6 cwt. Salicylat., 7 lbs. @ 2/6 lb. [6/1 lb.
Bismuth.	Carb., 3 lbs. @ 13/7 lb.	Bismuth Am. Cit., 6 lbs. @ 1/6 lb.	Spt. Aether Nit., P.B., 43 lbs. @ 5/8 lb.; 1 lb. @ " Ammon. Arom., P.B., 5 lbs. @ 4/6 lb.
Caffeine.	Pur., 1 lb. @ 25/- lb. Cit., 1 lb. @ 18/9 lb.	Morph. Mur. or Acet., 5 lbs. @ 4/3 lb. Lithia Cit. or Carb., 1 lb. @ 10/3 lb.	Chloroform, 5 lbs. @ 5/- lb. Syr. Aurant., 7 lbs. @ 2/- lb.
Calcii	Lactas, 1 lb. @ 4/- lb.	Magnes. Sulph., 1 cwt. @ 17/- cwt.	Ferri Iodid., 7 lbs. @ 2/- lb. Easton's, 7 lbs. @ 2/- lb.
Camphor	Flor., 5 lbs. @ 5/9 lb. 4-oz. Tabs., 7 lbs. @ 5/11 lb.	Menthol Cryst. 5 lbs. @ 24/6 lb. [@ 11/6 oz. Morph. Mur. or Acet., 16 oz. @ 9/10 oz.; 1 oz.	Ferri Phospb. Co., 7 lbs. @ 1/- lb. Tolut, 7 lbs. @ 1/1 lb.
Chlorodyne.	5 lbs. @ 3/6 lb. [@ 4/9 lb.	O. Anisi. E.I., 10 lbs. @ 2/10 lb.; 5 lbs. @ 3/- Ol. Cassia, 16 lbs. @ 5/6 lb.; 5 lbs. @ 5/10 lb.	Tinct. Aurant. B.P., 5 lbs. @ 16/6 lb. Tinct. Belladon., B.P., 5 lbs. @ 5/- lb.; Aquos, 2/- lb.
Chloroform.	Pur., 8 lbs. @ 4/2 lb.; 6 x 1 lb.	Caryoph., 5 lbs. @ 14/6 lb.	
Cream Tartar	Tartar., 7 lbs. @ 1/7 lb.	Eucalypt., P.B., 1 cwt. @ 1/11 lb.; 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.	
D	Ec. Senegæ Conc., 6 lbs. @ 4/- lb.	Menth. Pip., Wayne, 10 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.	
E	Serine Sulph., 15 gr. tubes @ 4/- each. Ess. Lemon Opt., 6 x 1 lb. @ 4/9 lb.	Menth. Pip. Japan, 5 lbs. @ 6/- lb. Morrhuae, 1921, 2 galls. @ 6/- gal.	
Ext.	Bellad. Vir., 7 lbs. @ 7/4 lb.	Olivæ, P.B., 2 galls. @ 10/- gal. [11d. lb. Ricini Insp., 88 lbs. @ 84/- cwt.; 9 lbs. @ Wintergreen, Art., 5 lbs. @ 3/6 lb.	
F	Cascar. Liq., P.B., 9 lbs. @ 2/8 lb. Ergot. Liq., P.B., 5lbs. @ 9/- lb.; 1 lb. @ 9/6 lb. [@ 15 - 1. Ipecac. Liq., B.P., 5 lbs. @ 14/6 lb.; 1 lb.	Oxymel Scilla, B.P., 5 lbs. @ 6/6 cwt.; 1 cwt. @ 67/6; 7 lbs. @ 1/- lb.	
Ferri	Glycyrrh. Liq., B.P., 6 lbs. @ 3/8 lb.	Paraff. Molle Flav., B.P., 3 cwt. @ 52/6 cwt.; 1 cwt. @ 62 6 cwt.; 28 lbs. @ 8 1/2 d. lb.; 7 lbs. @ 9 1/2 d. lb.	
G	Ammon. Cit., 7 lbs. @ 3/9 lb. Quin., Cit., 16 oz. @ 1/2 1/2 oz.	Pepsin, B.P., 1 lb. @ 27/- lb. [@ 1/2 lb. Petrol. Jelly Alb., 3/2 cwt. @ 99/6 cwt.; 28 lbs. Phenacetin, 1 lb. @ 7/9 lb.	
Glycerine	Opt. D.D., 1,260 P.B., 1 cwt. @ 130/- cwt.; 56 lbs. @ 135/- cwt.; 12 lbs. @ Guaiacol Carb., 1 lb. @ 16/- lb. [1/6 lb.	Phenazone, 1 lb. @ 10/3 lb.	
H	Gum Acacias sorts, 3 cwt. @ 57/3 cwt.; 1 cwt. @ 67/- cwt.; 7 lbs. @ 9d. lb.; English Ground Powder, No. 1, 1 cwt. @ 150/- cwt.; 7 lbs. @ 1/6 lb.; No. 2 1 cwt. @ cwt.	Potass. Acetas. 28 lbs. @ 2/6 lb. Bicarb. 7 lbs. @ 11 1/2 lb. [lb. Bromid., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1	
Hyd.	Ammon., 7 lbs. @ 6/3 lb. Oxid. Rub., 7 lbs. @ 6/6 lb.	Potass. Citras., 7 lbs. @ 3/9 lb.	

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Bentley's : A B C, 5th Ed. Cable Add. : " CELAITCH, LONDON."

CHARLES L. HUISKING, LTD.

74 Great Tower Street, LONDON, E.C. 3.

PHARMACEUTICAL CHEMICALS, DRUGS, ROOTS, HERBS, LEAVES, etc.

Representing in England the following—

"ORANJE," LTD., Amsterdam	- Essential Oils, Synthetics, etc.
A. OULMANN & CO., Leghorn	- Olive Oil, Orris Root, Juniper Berries, Italian Produce
ALF. GAUSSEN, Nimes, France	- Roots, Herbs and Leaves
PABLO GROSSMAN, Mexico City	- Sarsae, Jalap, Mexican Produce
A. E. BEEBE & SONS, Niles, Michigan	- Wayne County Peppermint Oil, Natural and Redistilled
J. L. P. SPOHR, Lugano, Switzerland	- Extract of Male Fern Root

AGENTS FOR AMERICAN FIRMS.

Let us have your Enquiries.

American Correspondents

Cable Add.; "CELAITCH NEW YORK."
Codes : A B C, 5th Ed.; Bentley's Improved. **NEW YORK CITY, U.S.A.**

Cable Add.: "CELAITCH NEW YORK."
Codes: A B C, 5th Ed.; Bentley's Improved.

BURKETT, SHARP & CO., LTD.
DRUGS 21, MINCING LANE,
 LONDON, E.C.3 *CHEMICALS*

ESTABLISHED 1872

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by
Messrs. THOMAS & WILLIAM HENRY, 11. East Street, St. Peter's, Manchester.

Phone: AVENUE 1945.
Telegrams: "NITROZONE", LONDON.

A. CONNELL & CO. 20 BEVIS MARKS
LONDON, E.C.3.

ACETANILID, B.P.
ACID TARTARIC, B.P.
ACID CITRIC, B.P.
CREAM OF TARTAR, B.P.
POTASSIUM
PERMANGANATE, B.P.
POTASSIUM BROMIDE
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HYPOSULPHITE OF SODA

SODIUM SULPHITE
PRECIPITATED CHALK
TALCUM POWDER
ESSENTIAL OILS
POTASSIUM CARBONATE
POTASH CAUSTIC
BICARBONATE OF SODA
EPSOM SALTS, B.P.
POTASH BICHROMATE

SALICYLIC ACID
STEARIC ACID
COCOANUT OIL
MINERAL OILS
MENTHOL CRYSTALS
MAGNESIA CARBONATE
PRUSSIATE POTASS.
PEPPERMINT OIL
ZINC OXIDE

Also GLASSWARE and BOTTLES. **NO ORDER TOO SMALL.**



Bronchial Lozenges

OF OLD-ESTABLISHED REPUTATION
WELL KNOWN

BY APPOINTMENT

WE SHALL BE
PLEASED TO
SUBMIT A SAMPLE
ON APPLICATION
OF THESE
WELL-KNOWN
LOZENGES.

A SELLING
AND PROFITABLE
LINE
IN TWO SIZES OF
TINS.

CORBRYN, STACEY
& CO LTD

Wholesale & Export Druggists,
Manufacturing Chemists,
LONDON.

The Man who Profits

In times of stress and emergency is the man who is prepared.
In present conditions it is easy to make many sales, extra sales, of

Fecto, P., D. & Co.

The chlorine disinfectant with a bactericidal value 12 times that of phenol. Fecto is non-poisonous, and may be recommended to be used diluted (one teaspoonful to a pint of water) as a germicidal mouth-wash and gargle, or by means of the "Glaseptic" Spray. A solution of the same strength should be applied daily to every telephone mouthpiece.

	M.R.P.	M.W.P.
8-oz.	1s. 3d.	10s. 2d. net per dozen
16-oz.	2s. 3d.	18s. 0d. net per dozen

Other preparations likely to be increasingly in demand are—

- COD LIVER OIL EMULSION, 33 %, bottles 5-oz., 8-oz. and 16-oz.
- MENTHOLATED BRONCHIAL LOZENGES, tin of 36.
- INHALONE (*semi-solid inhalant*) collapsible tube.
- METAGEN (*concentrated vitamine extract*) bottle of 50 capsules.

TABLETS—

- ASPIRIN, bottles of 25 and 100.
- RHINITIS (*Quinine Sulphate, Camphor and Ext. Belladonna*), full strength or half strength, bottles of 100.
- THROAT (*MENTHOLATED*), bottles of 25 and 100.
- THERMOFUGE (*instead of poultices*), tins of 4-oz., 8-oz. and 16-oz.

Place your order now to avoid missing sales.

If you want help in selling these products

write to

PARKE, DAVIS & CO.
50-54, Beak Street, LONDON, W.1.

Laboratories - - Hounslow, Middlesex.





Do You Sell Your Proper Percentage of Musterole ?

Musterole is just as necessary a part of the family bathroom's equipment as the shaving soap, hair oil, tooth paste or any other similar article you sell.

Most family ailments, whether coughs, colds, bruises, sprains or aches, are due to congestion or inflammation in some part of the system. In either case

a counter-irritant is called for. Mustard has been used as a counter-irritant for centuries. Musterole is its modern form.

In countless homes a jar of Musterole is kept handy on the bathroom shelf. How about your neighbourhood? Timely application of Musterole will save illness and expense.

Thos. Christy & Co.
4-12 Old Swan Lane - London, E.C. 4.



LORIMER-MARSHALL, Ltd.

FOR YOUR

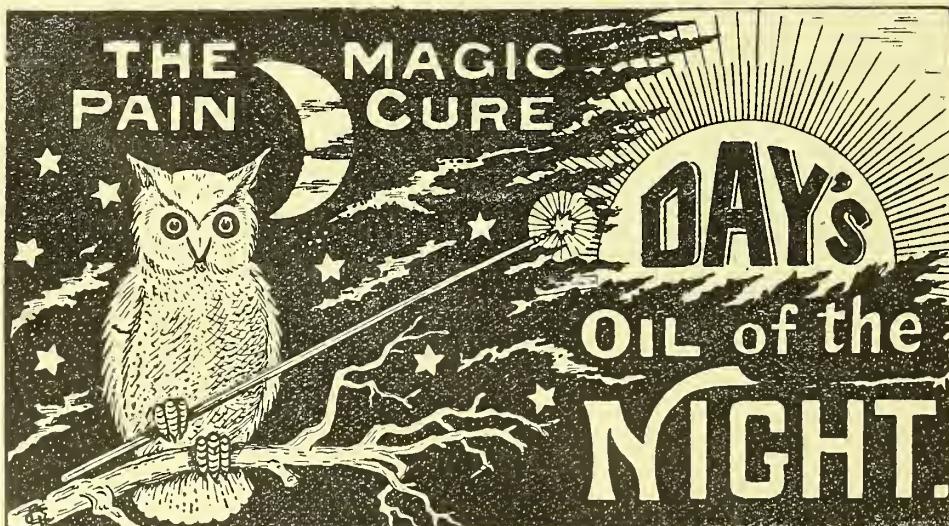
Winter Specialities

Lung Tonic, Children's Cough Mixture, Cod Liver Oil & Cod Liver Oil Emulsion, Honey & Lemon Linctus,
etc. etc.

Special Low Quotations for Season's Requirements.

LORIMER-MARSHALL, Ltd., 12 Tower Hill, E.C.3

Factories - *Britannia Works, Cold Blow, Hatcham, S.E. 14*



Retailed
at 2/-
and 4/6.



Liberal
discount
to the
Trade.

UNEQUALLED FOR CHEST COLDS & BRONCHITIS, RHEUMATISM,
SPRAINS AND STIFFNESS. - - FOR ALL ACES AND PAINS.

Simple to use. Effective and Invigorating. Splendid for Athletes.

PREPARED ONLY BY
ESTABLISHED 1840. **DAY & SONS, CREWE, Ltd., CREWE**



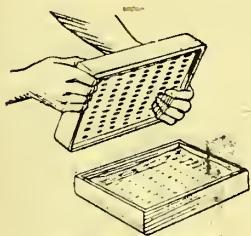
CAPSULES

WHERE & HOW THEY ARE MADE

A VISIT TO MESSRS. POTTER & CLARKE, LTD., NEW WORKS where the latest and best machinery for the manufacture of the "WINGED LION" BRAND OF MEDICINAL CAPSULES & PERLES has been installed



The Steam Pans.



The Capsule Mould.



The Hydraulic Press.

THE Coat or Casing of the Capsule is made entirely from Gelatine and Glycerine. Only the finest crystallized gelatine is used which ensures the Capsule keeping good in any climate, and from becoming pitted or mouldy. The gelatine is dissolved in the glycerine in a steam pan and is poured into the hopper of a running machine. A series of bright metal plates are then pushed under the hopper and a supply of the hot liquid poured upon them. These pass through a guage which regulates the thickness of the coat, which averages from one-sixth to one-tenth of an inch, according to the size of the capsule.

The liquid has now set to the consistence of a jelly upon the plates. These are removed to an oven to go through a course of baking to remove all excess of moisture. The Capsule Moulds are then arranged upon a hot table. These moulds consist of two steel dies fitting one above the other, with the shape of the upper and lower half of the capsule upon them. The number made at a time varies with the size of the Capsule—the following gives the number made in one pressing:—

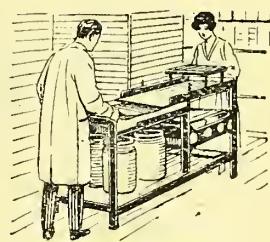
3 minims	280 capsules	15 minims	140 capsules
5 "	210 "	20 "	140 "
10 "	180 "	30 "	70 "
5 minim (perles)			240 perles.

The gelatine sheets are then stripped from the plates and one is laid upon the bottom half of the mould. The medicament is placed upon it—if liquid it is measured—if in solid form it is weighed and spread evenly over the surface.

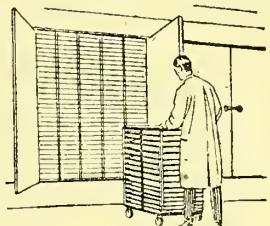
The second sheet of hot gelatine is placed on top of the medicament, all trace of air bubbles being carefully removed by careful manipulation and the top half of the mould is fitted.

The whole is placed in a powerful hydraulic press. A vigorous action of the pump soon raises the ram to the maximum pressure indicated upon the pressure guage. This unites the two sheets of gelatine so that the join in the capsule is hardly noticeable.

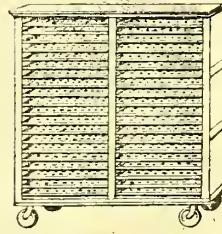
The Capsules are taken from the mould and are washed to remove any trace of the drug used in the manufacture being on the outside casing. The Capsules are laid upon trays to dry, and then polished. They are counted and packed in tins or boxes and are ready for sale.



The Running Machine.



The Baking Ovens.



The Drying Trays.

For export, all Capsules are specially hardened to withstand the various climatic conditions, the latter process being one of the so-called secrets of the trade. Probably each house has its own method of hardening but the use of spirit and air fans is the one in common use. The department is divided into two sections—Medicinal and Veterinary Capsules. The latter includes Capsules for large and small Dogs, Pigeons and Poultry, and some of the largest proprietary lines in the Country are now made here. Price Lists sent on receipt of Business Card.

POTTER & CLARKE LTD.

CAPSULE MANUFACTURERS

60, 62, & 64 ARTILLERY LANE · LONDON · E.I.
AND AT 24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

THE CATCH OF THE SEASON.**CINNAMON & QUININE CAPSULES**

In great demand.

Write for our Price List "A" of Gelatine Capsules.



We make 1,500 Varieties, and can make many more. Give us a trial now.



Place it on your Counter now.

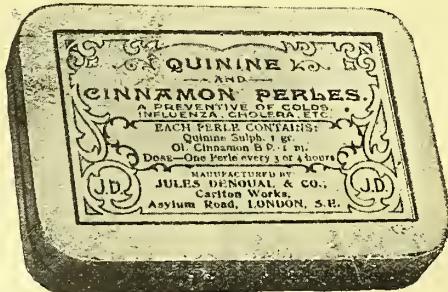
In attractive Show Outer,
10/- per doz. tins.

Name & address
on 3 doz.
6 doz. Carriage paid.

ROBERT FERBER, LIMITED, Medicinal Capsules Manufacturers. ESTABLISHED 1896.
98/104 OAKLEY STREET, LAMBETH, LONDON, S.E. 1. 110 Church Street, Toronto, Ont., Canada.
Sole Agent for Scotland—Mr. WILLIAM HILL, Watson Street, Glasgow.

"J D" QUININE & CINNAMON PERLES

do not cause nausea. Only the finest CINNAMON BARK OIL is used in their preparation.



Each Perle contains—

Quinine Sulphate gr. i.
Oil Cinnamon B.P., m.i.

Packed in handsome gilt tins with chromographic labels in 4 colours. 24 Perles in each tin.

Price 10/- per dozen tins.

JULES DENOUAL & CO.,
Carlton Works, Asylum Road, LONDON, S.E. 15.

DUTCH
Sugar of Milk.
"THE BEST"

HOLLANDSCHE
MELKSUIKERFABRIEK
Amsterdam.



THE GREAT FLESH BUILDER.

A LARGE and continuous advertising campaign has now been launched in connection with this popular tonic and flesh-building treatment, and the demand is rapidly increasing.

IRVONA is obtainable from all the usual wholesale houses, or direct, at the following prices :

3/- size, 27/- per dozen

15/- " 135/- "

IRVONA is on the P.A.T.A. list and gives you the full profit of 25 % on the retail price.

Pamphlets for distribution and Show-cards will be sent on application.

P. J. WILLIAMS

Chiswell Chambers, 27 Finsbury Street,
LONDON - - E.C. 2



Sells freely and readily.

	Size.	Per doz.	
Licorice	10½d.	8/6	
"RED BOTTLE or ST. PETER'S OIL."	1/3 - 12/3		
	3/-	27/-	"No case too bad!" Trade Mark. ESTABLISHED 1854.

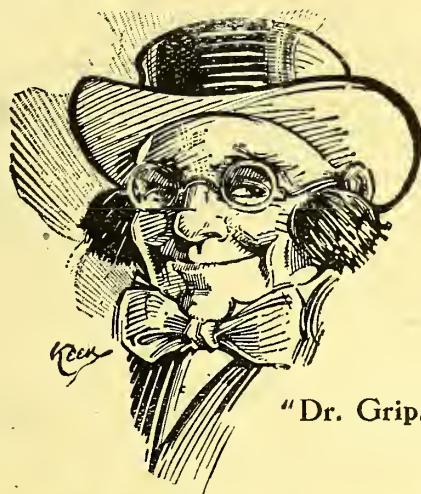
5 % Discount 30 days, on orders of £6.

Licorice is a popular remedy for Coughs and Colds wherever introduced.

Now is the time to get in your stock.

MANDALL & Co., LTD.
Tower Works, NEWCASTLE-ON-TYNE

National Telephone : 143 Central.



"Dr. Grip."

GRIPS

First-aid Pastilles.

A paying proposition that will keep your Cash Register ticking "Tenpences" all day long.

Write now for particulars of the NATIONAL Advertising Campaign and liberal Trade Terms. Write on Business Heading.

*Distributors to the Wholesale
and Retail Chemist Trades.*

Thos. Christy & Co.

4-12 Old Swan Lane,
LONDON, E.C. 4

SIZE.		M.R.P.	M.W.P.
5 oz.	Trial	2/-	18/-
10½ "	Small	3/-	27/-
17½ "	Medium	5/-	45/-
34½ "	Large	8/6	76/6
5 lb.	Hospital	17/6	157/6

Prices for IRELAND, CHANNEL ISLANDS, ISLE OF MAN : Less value of stamps, Wholesale and Retail.

For best terms, carriage paid, write to the Sole Agent—

J. F. MURPHY, 41 St. Ann's Road, LONDON, E. 3.

PLANO the best thing for
Rough Skin and
CHAPPED HANDS.

Sold everywhere at the popular price, 3d. per tablet.
TRADE PRICES—6 dozen, 11/6; 12 dozen, 22/-
Carriage Paid, 13 to dozen, for Cash with Order.
Discount—Orders of £1, 2½%; £5, 5%; £10, 7½%

SPECIAL OFFER.

13 dozen packets with advertising matter, 22/-;
less 2½% (£1.1.5 net). Cash with Order.

MILNER'S CHEMICAL CO., LIVERPOOL.



BOOKS FOR PHARMACISTS

Send us a postal card and we will send you a 32-page catalogue of professional and business books for pharmacists, and a copy of

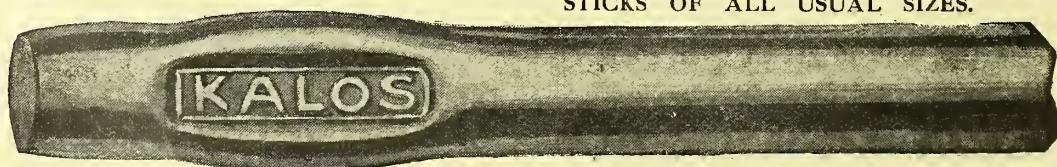
"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA PUBLISHING CO.
BOSTON 14, MASS., U.S.A.

"KALOS" LIQUORICE JUICE

Supreme Quality—Reasonable Price
STICKS OF ALL USUAL SIZES.



Importers can have a sample of any shipment of "Kalos" they may receive analysed by Mr. Ernest J. Parry, B.Sc., etc., London, at makers' expense.

100% Satisfaction

WHICH WOULD
YOU SOONER DO?

Sell some doubtful nostrum and lose
the confidence of your customers—
Or recommend an honest remedy
which you know will give satisfaction?

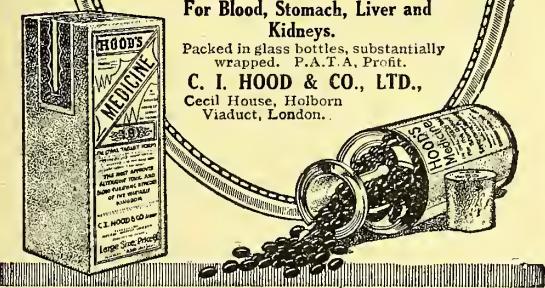
It is 100% satisfaction every time
with Hood's Medicine. More than
40,000 letters of praise in two years
bear testimony to its efficiency. It not
only cleanses the blood but it makes
blood good.

HOOD'S MEDICINE

For Blood, Stomach, Liver and
Kidneys.

Packed in glass bottles, substantially
wrapped. F.A.T.A. Profit.

C. I. HOOD & CO., LTD.,
Cecil House, Holborn
Viaduct, London.



LIQUID BARKOLA COMPOUND

The Well-known Specific for Rheumatism has been
on Sale continuously in Great Britain for over
30 Years.

Wholesale 30/- per doz. Retail 3/-

Each bottle (1-oz.) carries instructions to the Chemist to make
up to the following Standard Formula—

Liq. Barkola Comp., 1-oz.; Tincture of Gentian, 1-oz.;
Syrup of Rhubarb, 1-oz.; Syrup of Ginger, 5-oz.

Chemists charge according to their own scale for dispensing.

**THE BARKOLA CO., Ltd.,
42 Great Dover Street, London, S.E.1**

Cephos

For NEURALGIA, HEADACHE,
RHEUMATISM & INFLUENZA.

TRADE TERMS:

MINIMUM RETAIL PRICE 1/3 3/-
PRICE ... per doz. 12/- 30/-

Bonus of 10/- on £5 worth for 14 days' Window Display
Terms: Cash in one month. Orders carriage paid. Minimum
Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

CEPHOS LTD., BLACKBURN, Lancs.

PACKED DRUGS

PRICES:

EPSOMS & GLAUBERS

1 oz. packets	8/6	gross
2 oz. ,, ,,	11/6	"
4 oz. ,, ,,	17/-	"
8 oz. ,, ,,	27/6	"

BORIC POWDER

1 oz. packets	16/-	"
2 oz. ,, ,,	25/6	"
4 oz. ,, ,,	45/6	"
8 oz. ,, ,,	81/-	"

SOD. BICARB.

1 oz. packets	9/3	"
2 oz. ,, ,,	12/6	"
4 oz. ,, ,,	18/-	"
8 oz. ,, ,,	29/-	"

CARRIAGE PAID on £5 ORDER
in which Drugs, etc., may be included
(*Gt. Britain only - Irish terms on application*).

NOTE:

OUR NAME does NOT appear.
YOUR NAME and ADDRESS
is printed on ALL LABELS,
which we will buy from your own
printers to ensure exactly matching
your series.

SEND A POSTCARD FOR SAMPLES TO
The Packed Goods Dept., Exeter.

Evans, Gadd & Co., Ltd.

Wholesale and Manufacturing Chemists,

EXETER & BRISTOL

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills :

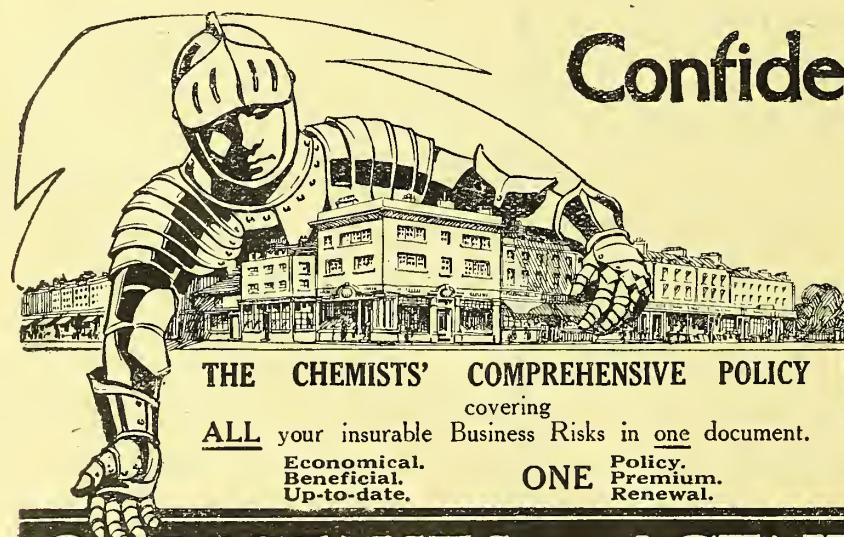
1s. 3d. size	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	26s. 6d. " "
5s. 0d. new size, contains double the quantity of 3/- box.					50s. 0d. " "

Beecham's Cough Pills :

1s. 3d. size	...	...	...	...	10s. 6d. " "
3s. 0d. "	...	...	...	...	26s. 6d. " "

Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ltd., St. Helens."



Confidence

THE CHEMISTS' COMPREHENSIVE POLICY

covering

ALL your insurable Business Risks in one document.

Economical.
Beneficial.
Up-to-date.

ONE Policy.
Premium.
Renewal.



**The LICENSES and GENERAL
INSURANCE COMPANY LIMITED**
TEMPORARY ADDRESS WHILST REBUILDING - TEMPLE STATION.
VICTORIA EMBANKMENT, LONDON, W.C.2.



We undertake to buy back from you any bottles of Zomogen unsold 6 months after you have ordered them, and to buy them back at the price you paid, without any deduction whatever.

This guarantee insures you against any possible risk. Send us your order now, and you will find that Zomogen is one of the best selling and most profitable lines that you have ever handled.

**Wholesale Price, 45/- per doz.
Retail Price 5/- per bottle.**

Zomogen-

A new tonic and restorative food composed of natural blood-forming elements in a palatable form.

Zomogen is a new and *entirely British* production which offers in the simplest and most easily assimilated form yet available, the hæmoglobin and essential vitamins necessary to correct an impoverished condition of the blood. It is infinitely superior to any preparation of metallic iron, because it contains the natural iron of the red corpuscles in an unaltered form. Zomogen is pleasant in taste, it contains no chemical preservatives whatever, and will not irritate the most delicate digestion.

Although Zomogen has only been on the market for a short time, we have already received a very large number of letters from doctors who have tested it carefully in the course of their practice.

Their experience proves that Zomogen effects a speedy and most satisfactory improvement in all cases of anaemia, neurasthenia, debility and marasmic conditions, for children and adults and during convalescence after severe illness.

ZOMOGEN

REGD TRADE MARK.

Zomogen Food Products Ltd., 63, York Place, Edinburgh.
Wholesale Distributors: J. C. GAMBLIES & CO., 40 Farringdon St., London, E.C. 4.
Also J. & J. HASLETT, LTD., North St., Belfast.

You Cannot Buy Better !

MALT EXTRACT MALT & COD LIVER OIL

Ask for
Samples
and
Prices.

Also in attractive Containers, with client's own name and address.

JEFFREYS, MILLER & CO., Ltd.

Leyland Mills,
WIGAN.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND
PROTECTED PRICES.

Food for Babies, Prepared Barley,
N.F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON E.

All advertising matter—Booklets, Window Displays,
Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

VITMAR

*The new vitalising food
proved to contain the
three principal vitamines*

YOUR WHOLESALERS CAN SUPPLY YOU

Manufacturers : Food Specialists,
CALLARD & CO., 74 Regent St., LONDON, W.1.

YOUR CHEMIST CANNOT WORK

properly unless he has suitable utensils for his work.

There is a "J. Green" filter paper suitable for even the most difficult liquid.

May we send you samples ? They are sure to come in useful, and cost you nothing.

Manufacturers:

J. BARCHAM GREEN & SON
(J. Dept.), Hayle Mill, MAIDSTONE.

SEITZ ASBESTOS FILTERS

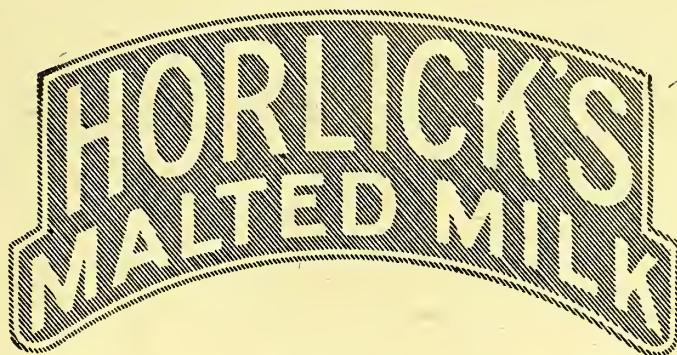
*For Pharmaceutical
Purposes.*

SPECIALLY SUITABLE FOR
SPIRIT PREPS., SYRUPS, ETC.

With preparations such as Concentrated Infusions, where filter pulp fails, the SEITZ produces at once a brilliant filtrate.

ILLUSTRATED CATALOGUE FROM

ERNEST J. KAYE & CO.,
54, Cheapside, London, E.C. 2.



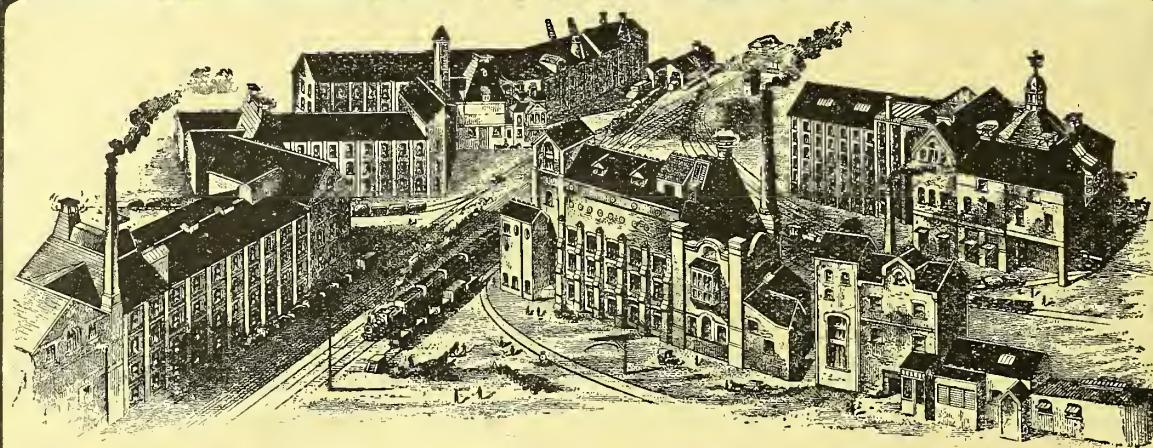
MADE IN ENGLAND.

The Sale of Horlick's Malted Milk—the Original—is and always has been directed through Chemists, while substitutes and imitations are often exploited through other Trades.

The Price is Protected.

Attractive advertising material for Window Display and Counter Distribution free and carriage paid on application to the Company.

HORLICK'S MALTLED MILK CO.,
SLOUGH, BUCKS, ENGLAND.



SPECIALIZING.—The above Maltings, Malt Extract Manufactories and Laboratory of H. A. & D. TAYLOR, Ltd., and the BRITISH DIAMALT CO., SAWBRIDGEWORTH, specialize in the manufacture of high-class Malt Extract Products. The leading Manufacturers of Malt Extract with Cod Liver Oil. Packed in Jars, Tins, etc., to meet clients' requirements.

Prices, Specimen Labels, Showcards, etc., on request.

**H. A. & D. TAYLOR LTD., PROPRIETORS
OF
THE BRITISH DIAMALT COMPANY,**

CITY OFFICE : 9 HOLBORN VIADUCT, LONDON, E.C.1.
Phone: City 1765. Telegrams: "Nutrimalt, Cent, London."

LIVERPOOL OFFICE : ARCADE BUILDINGS, 9 LORD STREET.
Phone: Bank 3489.

LABORATORY AND WORKS: SAWBRIDGEWORTH, HERTFORDSHIRE.
Also at BURY ST. EDMUNDS, BISHOP'S STORTFORD, NEWMARKET, etc.

Composition ESSENCE

This is a really first-class article and we solicit your enquiries.

Supplied in BULK or
BOTTLES (various sizes)

Customers' name on label if desired.

**NEWBALL & MASON
NOTTINGHAM.**



If You employ
The Right Methods
You will certainly
Obtain the Right Reward.

ATTRACT YOUR CUSTOMERS
... AND YOUR SALES ARE ASSURED ...

The Printing

of your Labels, Cartons, Envelopes, etc.,
to present an attractive appearance is the
most important item to be considered.

OUR FEATURE is to really . . .
FORCE ATTRACTION
so that the advantage lies with the Chemist
in obtaining the right class of Printing.

Thomas Waide & Sons

Chemists' Printers, LEEDS. Limited.

REDUCTION IN PRICE

BISHOP'S NATURAL FRUIT SALINE

is now *reduced* to 19/- per dozen, subject; the Retail Price remaining at 2/3 per bottle, P.A.T.A.

A Bonus is offered on orders for 6 dozen, or 12 dozen on consideration of Chemists giving a Window Display.

Attractive Showcards and Price-cards will be forwarded with each order.

BISHOP'S NATURAL FRUIT SALINE

is a business bringer. It sells well all the year round.

To the Chemist.—1 1½d. per bottle profit if you purchase one gross lots.

1 1d. per bottle profit if you purchase 6 dozen lots.

Bonus quantities forwarded carriage paid.

It pays to push BISHOP'S.

PREPARED ONLY BY

ALFRED BISHOP, Ltd., 48 Spelman Street, LONDON, E.1.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

ETNA
BRAND

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**White, Yellow, Amber,
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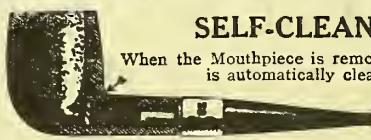
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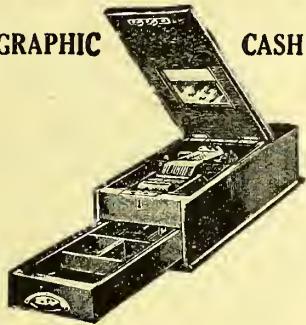
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Made of specially selected materials. Dovetailed S des. Clamps to bottom and lid, and highly finished French Polished. Size over all, 18 in. long, 9 in. wide, 7 in. high. All the outside fittings such as the Handle. Hinges and Escutcheon Plate are of solid brass.

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Internal Mechanical Fitments, Check Action, etc., are of Solid Brass. Large cash capacity, and coin spaces are arranged for rapid handling of change, also special compartment for notes in drawer. The whole comprises a very solidly built, reliable and effective Cash Register, unapproachable at the

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CURASOL SULPHUR SOCKS

Fixed Selling Price, 4d. per pair.

Cost, 2/8 per dozen.

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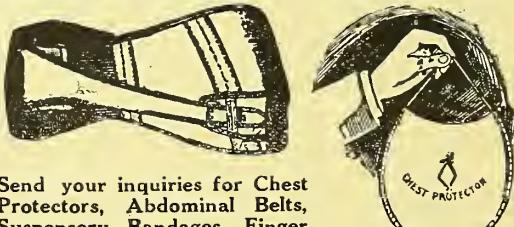
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→ SPECIAL BARGAINS ← IN Brushes, Combs & Scissors.

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No.	description	per doz.	s. d.	per doz.	s. d.
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562	" real ebony	11 "	" "	54	0

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No.	description	per doz.	s. d.	No.	description	per doz.	s. d.
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701	" " 4 "	7	0	730	" straight	3 "	5 6
702	" slotted back 4 "	8	0	707	" "	4 "	7 6

COMBS. LADIES' DRESSING COMBS.

No.	description	ins.	per doz.	No.	description	ins.	per doz.
103	Black celluloid	7½ × 1½	6 6	118	Black vulcanite, burr grailed	8 × 1¾	10 0
171	White "	7½ × 1½	6 6	116	Shell celluloid	7½ × 1¾	8 6
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121	" burr grailed	7½ × 1¼	7 6	228	White horn	8 × 1¾	18 0

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No.	description	ins.	per doz.
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196	Black vulcanite "	8 × 1¾	12 6
117	White celluloid "	7½ × 1½	15 0

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The REPELLO *requires no shaking down*

A 30-second push back in an instant.



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The square mark engraved on lens front locates the Mercury column immediately.

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An Elastic Bandage, containing no Indiarubber.
Superseding Elastic Stock-

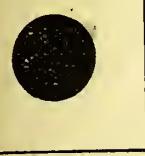
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Three sizes, about 2, 2½, and 3½ inches wide.
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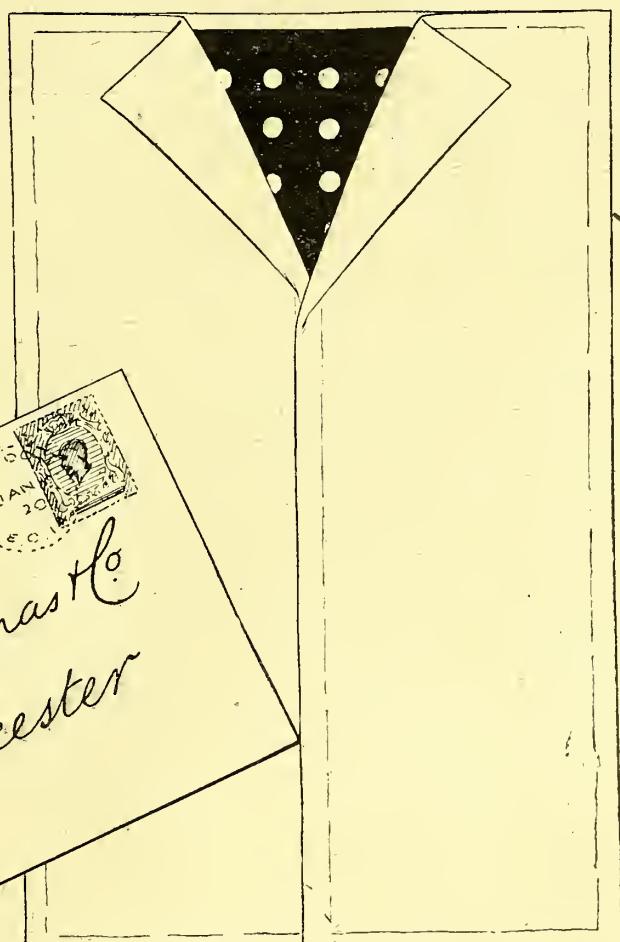
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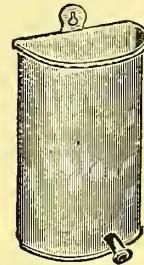
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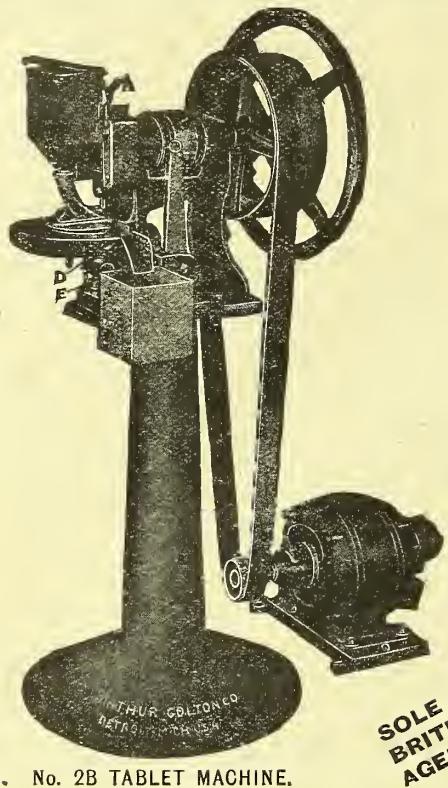
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"The Kute" fits any wrist
You get elastic support
You get rigid support
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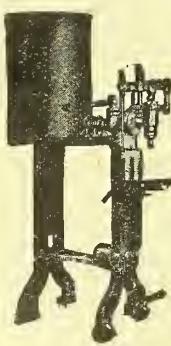
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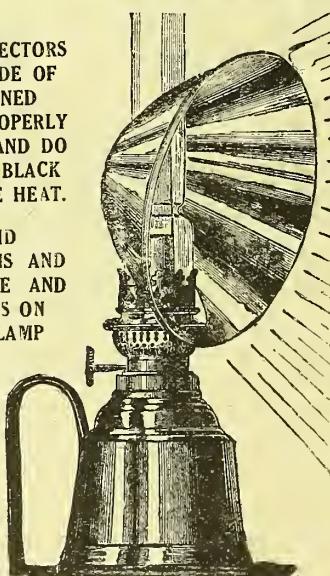
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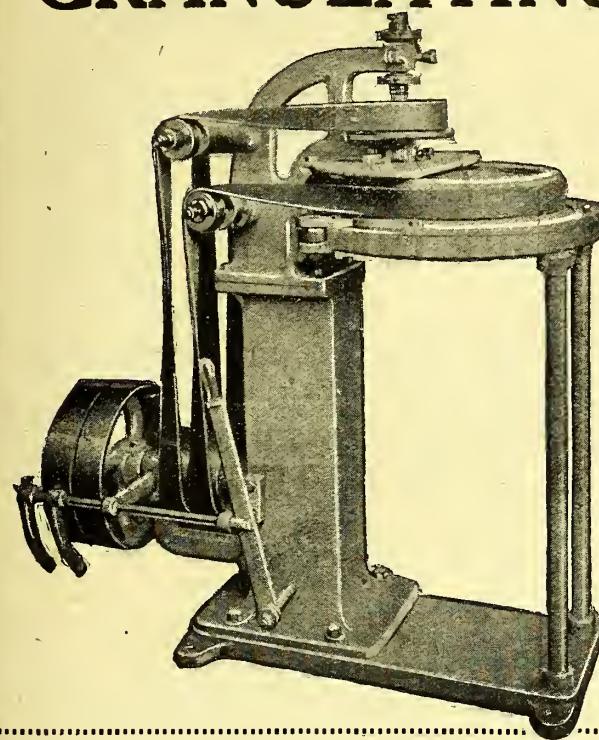
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A NEW and anxiously awaited labour-saving machine for preparing powder in granular form for compression into Tablets. Hitherto this process has been done slowly and laboriously by hand, and the coming of this machine will very considerably lower the cost of production in tablet-making.

The machine is fitted with either Trays or a Chute (not shown on illustration), to suit requirements.

This machine has been tested with the most difficult powders used in tablet-making with excellent results, and the output is large.

Write for Lists of this and other Pharmaceutical and Chemical Machinery from the Inventors, Patn'ees and Makers—

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FOR
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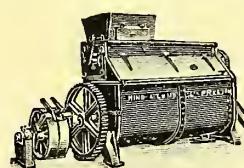
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SUPPORT HOME INDUSTRIES.

ROBINSON & SONS, LTD.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD.

HIGH-CLASS WORK AT COMPETITIVE PRICES.

THE CALDICOT TIN STAMPING WORKS, Limited

CALDICOT, Nr. NEWPORT, MON.

**SPECIALISTS IN—
DECORATED TIN BOXES AND ADVERTISING SHOW TABLETS.**

All kinds of Plain & Fancy Tin Boxes,
Bung Tins, Ash Trays, Toys and other Novelties.

PRINTED DECORATED, LACQUERED AND ENAMELLED TINPLATES AND BLACKPLATES FOR THE TRADE.

Enquiries invited. Satisfaction Guaranteed.

We are now manufacturing
Containers & Cases

of various styles in
Imitation Gold

which easily surpasses Aluminium for

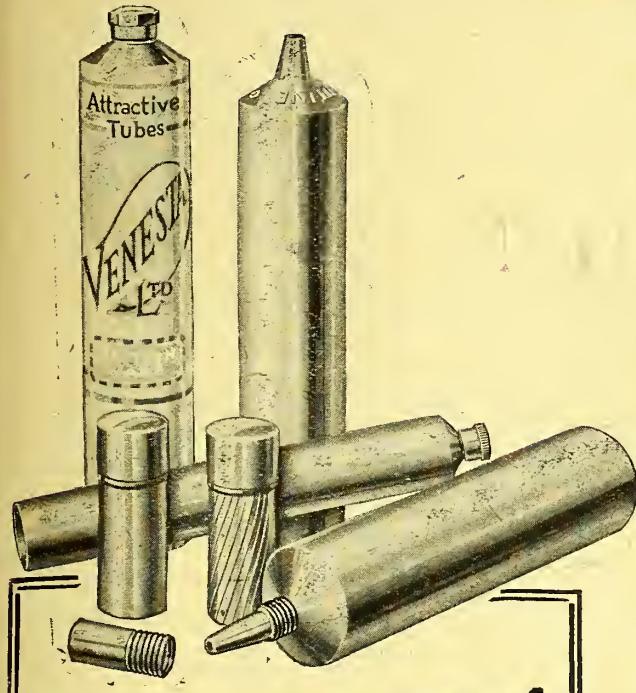
BEAUTIFUL APPEARANCE

The Prices are just as attractive.

Our exhibition of these new imitation gold boxes at the Chemists' Exhibition was a great success. A sample will be sent free to any interested wholesaler or manufacturer.

FRANK BUCKLER, Ltd.

CASTLE WORKS,
Mount Pleasant Road, Tottenham,
London, N. 17.



Venesta Tubes

When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customers' own requirements.

We also supply Lip-salve Cases, Sprinklers, etc., and shall be pleased to forward illustrated lists, samples and current prices on application to—

G. Dept.

VENESTA LTD.

1 Great Tower Street, London, E.C.3.

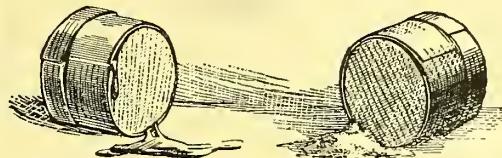
Actual Manufacturers of
TINFOIL

Plain, coloured and embossed in any size, gauge or shape.

"Corruganza" SEAMLESS OINTMENT BOXES

Have replaced the old "Willow" boxes—Greaseproof—the bottoms cannot fall out.

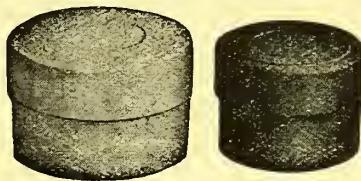
GERMAN "WILLOW" BOXES are again being offered at lower prices, but these boxes will not hold Powders, nor, in warm weather, Ointments.



THEY ARE DEAR AT ANY PRICE.

Stick to the ONE-PIECE principle

"Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has induced us to offer a series of Pill Boxes made on the same One-Piece principle. Stocked in usual sizes. They cost a little more than the Ring and Disc style, but THEY HOLD THE GOODS, and do not fall to pieces in handling or in the pocket.

Wholesale or Export only from

**HUGH STEVENSON & SONS,
LIMITED,**

Summerstown Works, London, S.W. 17

And at Manchester, Birmingham, Leith, Perth & Glasgow.

Kindly mention this Journal when replying to the advertisements.

Have you ever thought
what a profitable line
can be made during the
Winter Season of

We guarantee our work
to give your customer's
every SATISFACTION

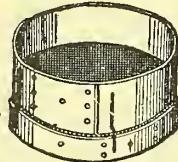
ENLARGEMENTS

All Orders executed in Seven Days.
RUSH ORDERS returned in 96 hours.

DEVELOPING
PRINTING
RETOUCHING

**THE EXPRESS
DEVELOPING CO.,**
23 Osborn Street,
LONDON, E.1.

MINIATURES IN
BLACK AND WHITE
SEPIA OR
WATERCOLOURS



For your Sieves and Wire Gauze try the actual Makers !

S. RAMSEY & CO.,

198/202 ST. JOHN STREET, E.C. 1.

Telegrams: "Methodical, Smith, London."

Telephone: Holborn 6337 (3 lines).

YOUR CUSTOMER

with the Snapshot Album wants his collection artistically arranged. Help him by selling him a LOOSE LEAF ALBUM.



Full particulars from
THOMAS BISHOP & SON, Deritend,
BIRMINGHAM
Prices from 10/- per dozen. Sample, post free, 1/-

ART OF DISPENSING. (9th Edit.) 8/-, by post 8/9.

VETERINARY COUNTER PRACTICE.

7/6, by post 8/3.

CHEMIST'S DICTIONARY OF MEDICAL TERMS.

3/6, by post 3/10.

The CHEMIST & DRUGGIST, 42 Cannon Street, E.C. 4

CORRUGATED PAPER, BOXES AND PACKINGS FOR ALL PURPOSES

Waterproof Papers, Gummed Paper Tapes, etc. etc.

ENQUIRIES SOLICITED.

Telegrams: "Corrugated." THE CORRUGATED PACKING MATERIALS CO., LTD., West Mill, Oxford Street, Ashton-under-Lyne. Telephone: 576 Ashton-under-Lyne.

POSTCARD ENLARGEMENTS

1 dozen from the same negative

B. & W. 2/- Sepia per dozen 3/-

LET US DO YOUR

DEVELOPING & PRINTING

BEST WORK & QUICK SERVICE.

SHAWYER, SWINDON,
WILTS.

PLAIN and
DECORATED
TINS
for all purposes.

The Don Canister Co Ltd
WHEATLEY,
DONCASTER.
Telephone: Doncaster 496.
Telegrams: "Canister 496 Doncaster."

A
PHILIP JOSEPHS
& SONS LTD.

SHOWCASE
QUICKLY EARNS
ITS COST.

Try One!

93 OLD ST., LONDON, E.C. 1.
Phone—2191 Clerkenwell. Wires—"Josiphish London."

GOODS WELL ADVERTISED
ARE HALF SOLD.

C. There are two reasons for the enormous sales of "Fairy Dyes." One is inside the packet—the goodness of the Dyes—their reliability and their low cost. The other is that we spare no effort or expense to advertise them well.

D. In every leading Ladies' Weekly and Monthly throughout Great Britain clever "copy" and striking illustrations are convincing the public of the superiority and economy of using "Fairy Dyes" and no others for every home need.



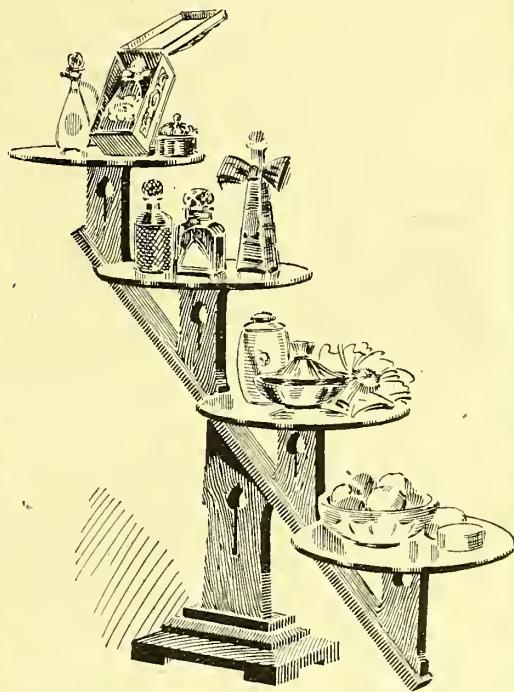
- ¶ Do you want to increase your sales, your repeat orders, your turnover, with a dye that is easy to sell because it is so simple and so easy to use? There is a choice of twenty-two shades suitable for cottons, woollens, linens or silk, and already "Fairy Dyes" are recognised to be most reliable and economical.
- ¶ Send us your order now. It is too late when you learn that your competitor has been doing great business with "Fairy Dyes," for the demand for "Fairies" is already very great and growing, and the man who has them in stock is the man who scores. The selling price is 2d. per packet and the public want them from **you**.

FAIRY DYES, LTD.

Regd. Office : 37/41 GLASSFORD STREET, GLASGOW.
Telegrams: "Fairyland Glasgow." Phone: 1902 Douglas.
LONDON DEPOT : 292 Upper Street, ISLINGTON, N.1

DISPLAY STANDS

that increase your Sales



D. 268.—A very attractive Window or Counter Stand, light oak. Height over all 24 in., with four supports covered green baize. Complete with four 10-in. circle plate-glass shelves 40/-

Q Why not call at our Showrooms and let us demonstrate to you the possibilities of your window? As experts, we can offer you valuable advice, and our Showrooms, we feel sure, will interest you.

Write for Booklet "D."

THE
IMPERIAL
SHOPFITTING Co.

**Imperial House, 133 Upper St., Islington,
MANCHESTER LONDON, N. GLASGOW
6 Todd St. 49 Virginia St.**

RECOMMEND
JOHN BOND'S
"CRYSTAL PALACE" MARKING INK

16 YEARS ON THE P.A.T.A.

A STRAIGHT 6d. and 1/- LINE.



6d. size in enlarged square
Bottle (as illustrated).

WORKS:
75 SOUTHGATE ROAD,
LONDON, N.1.

The public buys more "John Bond's" every year. A word of suggestion will often sell a bottle: Marking Ink is one of the things of which people need to be reminded, and they will always take "JOHN BOND'S" (HEAT or NON-HEAT), which is warranted to fulfil every requirement.

YOUR WHOLESALE HOUSE KEEPS IT!

6d. size, 4/3 doz. (30% profit); 1/- size, 8/- doz. (33½% profit).

A Linen Stretcher and Special Marking Pen given with the 1/- size.

N.B.—WHEN ORDERING, PLEASE SPECIFY IF HEAT OR NON-HEAT IS REQUIRED.

Wholesale Terms.

Minimum—1 gross 6d., 44/- or mixed orders to same value; 1 gross 1/-, 80/-; subject to customary discount on quantities. £2 4s. 0d. and up carriage paid.

**UNIVERSITY COLLEGE,
NOTTINGHAM.**

COURSE IN PHARMACY.

Special Courses are arranged for the Major and Qualifying Examinations of the Pharmaceutical Society.

Head of Department of Chemistry:

Professor F. S. KIPPING, Ph.D., F.I.C., F.R.S.

Head of Department of Physics:

Professor E. H. BARTON, F.Inst.P., D.Sc., F.R.S.

Head of Department of Biology:

Professor J. W. CARR, M.A.

Lecturer in Pharmaceutics:

J. C. JINKS, M.C., Ph.C.

A Nine Months' Course for the Qualifying Examination commences October, 1922.

Inclusive Fee for the Course, £32.

A Six Months' Course for the Major Examination commences October, 1922.

Inclusive Fee for the Course, £20.

Intending Students should make application at once to the Registrar.

WESTMINSTER
College of Pharmacy.

G. S. V. WILLS, Ph.C., and P. H. WOODNOH, Ph.C.
 (Principals).

QUALIFYING EXAMINATION.
 Benches now being reserved for Six Months' Course and Three Months' Revision Course commencing in April.
 Part-time Classes for Part I.

*For Details of Arrangements, apply to the Principals,
 190 CLAPHAM ROAD, S.W.9.*

MANY SUCCESSES IN THE RECENT EXAMINATIONS!

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition by Correspondence for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.), or the British Optical Association (D.B.O.A.).

Write for full particulars—

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., etc.
64 High Street - - - - BARNET.

PHOSFERINE

New Window Display Conditions.

Monthly Account.**Carriage Paid.**

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6; on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

EXAMPLE.

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 , 3/- , at 30/- ,	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	<u>10 6</u>	
		<u>£4 11 6</u>	<u>£6 4 6</u>

*Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.
Window Display Material Free and Carriage Paid.*

WHOLESALE PRICES OF PHOSFERINE.**Carriage Paid.****Monthly Account.**

1/3 size	...	12/- per doz. net.
3/- , ,	...	30/- , ,
5/- , ,	...	48/6 , ,
12/- , ,	...	114/- , ,

PROTECTED PRICES.

Phosferine, and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C. 4, when a fresh supply will be sent and postage refunded.

WHITAKER & CO'S PAGE



"LUTON" HAT DYES

Used with success for years
by millions of British Ladies.

THE BOTTLE HAS
BEEN MUCH ENLARGED

*and now contains
4-oz.*

Immediate Delivery DULL
or GLOSSY series.



"AURORAL" COLD WATER DYES

"always a success"

Ladies everywhere praise these simple
and beautiful dyes. They retail at 6d.
per packet and show at least 50%
profit on outlay.

WRITE TO-DAY for latest patterns and price
lists of "LUTON" Hat Dyes, "AURORAL"
Cold Water Dyes, Whitaker's Fabric Dyes, Gold Paint, Varnish
Stains, Black Lacquer, etc. etc.

MANUFACTURERS :

**WHITAKER & CO., Luton Dye Works,
KENDAL.**

Telegrams : "DULLETTE KENDAL."

LONDON OFFICE & SHOWROOMS : 61 & 62 Craven House, Kingsway, W.C.2
Established 1878.

Telephone : 214.

Telephone : GERRARD 1774

Our Products are of entirely British Origin and Manufacture.

THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

FEBRUARY 4, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal. Premises to Let, Goods and Shopfittings for Sale, and Agencies: 6/- for 50 words; every additional 10 words or less, 6d.

SITUATIONS OPEN: 6/- for 40 words; every additional 10 words or less, 6d.

SITUATIONS WANTED: 2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column).

MISCELLANEOUS (Wholesalers') Section for odd and second-hand lots: 10/- for 60 words; 1/- for every additional 10 words or less.

EXCHANGE COLUMN (for Retailers, etc.): Two-pence per word, minimum 2/-

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of 1/- extra for each advertisement.

PAYMENT.

All Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4.

Telephone: Central 3617 (3 lines).

Telegrams: "Chemicus, Cannon, London" (2 words).

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—HOLBORN.—For disposal, a unique Pharmacy, situate in close proximity to several hotels; returns, present rate, £2,000, per full prices; an opening presents to do £5,000 to £6,000 per annum; lock-up shop; held on lease; price about £2,000.

2.—GREAT PORTLAND STREET (near).—Ready-money Business; lock-up shop recently established; opening to do about £40 weekly; price, to include stock, fixtures, lease, etc., £800.

3.—ESSEX.—Neglected Business; established by vendor 42 years since; returns £12 weekly, with scope for considerable increase; premises comprise double-fronted shop, six rooms, and offices; lease 56 years unexpired; ground rent £4 10s.; price, to include freehold premises, £600.

4.—STRAND (near).—Well-established Business, surrounded by first-class hotels; gross turnover upwards of £5,000, at full prices; well-fitted shop, fully stocked; good opening for two energetic men with capital at command.

5.—LONDON, S.E.—Cash Retail Business, situate in busy main thoroughfare; returns £1,700, at good prices; excellent opening for extension under qualified management; lock-up shop; held on long lease.

6.—LONDON, N.W.—Drug Store, established 28 years; returns average £20 weekly; scope for increase under qualified supervision; net profit 25%; double-fronted corner shop; moderate inclusive rental; stock estimated by vendor at £800; price £850.

7.—REIGATE.—For disposal, with possession March 25th, 1922, Freehold Residence, comprising 8 bedrooms, dining- and drawing-rooms, conservatory, garden, lawn, fruit trees, also greenhouse with vines; price £2,300 or near offer.

8.—WEST OF ENGLAND.—Established Business; excellent position; sea view; returns between £2,000 and £2,500 yearly; net profit 25%; well-appointed shop, fully stocked; price £1,800; the freehold may also be acquired.

9.—LINCOLNSHIRE.—General Retail, Prescribing, and Agricultural Business; established many years; returns £700; scope for considerable increase; single-fronted shop; good residence; terms, valuation of stock and fixtures.

10.—MIDLANDS (Market Town).—For immediate disposal, through breakdown in health, an old-established Retail Business, together with Gilbey's Agency and Mineral Water Factory; the sum required to purchase is £5,000.

11.—HANTS (Seaport).—Cash Retail Business, including postal trade; gross receipts about £12,000 per annum, at full prices; further particulars on application.

12.—NORTH STAFFS.—Well-established Business, held by Vendor many years; returns about £2,000; price to be agreed equitably.

13.—MIDLANDS.—Ready-money Business, situate in town with population of 100,000; returns £500; scope for large development under energetic management; rent £30; price to be agreed.

14.—WHOLESALE BUSINESS, established upwards of a century; a number of Proprietaries are included, which are stocked by most Chemists in the kingdom; returns between £4,000 and £5,000; terms, stock and plant at valuation, and sum for goodwill to be agreed equitably.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4

BERDOE & FISH

Valuers & Transfer Agents

35 JEWRY STREET, FENCHURCH STREET, E.C. 3.

Telephone: 1809 Central.

1. SOUTH-WESTERN COUNTY.—For private disposal, high-class country retail, delightfully situated, and quite unopposed, very best prices, and showing exceptional profits; splendid residence available, good introduction given. Applicants with £3,250 can have further details on receipt of references.

2. LONDON SUBURB, S.W.—Good-class light suburban retail, with Kodak agency. Returns £5 a week, with scope for doing £70, no near opposition; good stock, all in excellent order. Price £1,500.

TO VENDORS.

SPECIAL NOTICE.

We have a client desirous of purchasing immediately, in London or suburbs or any large town within 100 miles, a sound business with a turnover of £5,000 to £10,000; cash ready for suitable concern.

STOCKTAKING VALUATIONS.

We have vacant dates during the next two weeks, and invite applications for our special terms.

ESTABLISHED 1870.

The Association of Manufacturing Chemists

— LIMITED —

Head Offices—26/28 Kimberley House,
Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant & Valuer.
PHONE: CITY 6942.

Well known Proprietary Article for Sale.

Fullest Particulars on Application.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—MIDDLESEX.—Pleasant London suburb; good-class Retail and Dispensing Business, held on good lease at rental of £275 per annum; cash takings about £60 per week; old-established; large house attached; no Photo or Optics, but excellent scope for same; nicely fitted and well stocked.

2.—NORTH-WEST SEASIDE TOWN.—An exceptionally good Business, in prominent position of large town; returns £4,500 per annum; handsome shop, and large house attached; also Wholesale Photographic connection; price about £5,500, which includes 990 years leasehold property; profits estimated at about £1,300 per annum, and stock valued at £1,800-£2,000; sleeping or active partner entertained.

3.—Small Factory Premises required in E. London district; forward fullest particulars.

4.—Wholesale Business, dealing chiefly in Toilet Specialities; established four years; excellent connections; good turnover; factory 3,000 square feet, with house adjoining; held on lease of 21 years; fullest investigation invited; balance sheets can be inspected; fullest particulars on application.

5.—Small Manufacturing Toilet Business, in pleasant Surrey town; excellent factory; held on very low rental; scope for great improvement; inspection invited.

Stocktaking and Valuations for all purposes undertaken upon Reasonable Terms.

BAKER & ROBERT'S

P. C. Baker, Ph.C., M.P.S. W. Rooke Roberts, M.P.S., F.S.M.C.
174 VICTORIA ST., S.W. 1. Tel.: VICTORIA 27.

*Valuers for Sale or Purchase,
Income Tax, Probate, etc.*

Personal attention, no publicity,
please write for moderate terms.

Recommended by The British Drug Houses, Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses.

ERNEST J. GEORGE

THE PERSONAL NOTE

A Chemist writes — re Stocktaking :

"The work was carried through by you here with the minimum of trouble to us.

"I hope to have you again, and shall look forward to your coming as that of a valued and interesting friend."

138 Lichfield St., WALSALL

PUBLIC NOTICES.

THE BRITISH BRUSH MANUFACTURERS' ASSOCIATION.

PRICES IN THE BRUSH TRADE.

The following is a copy of a reply, sent by the Secretary of the above to a correspondent who asked for information as to the probable trend of prices in the Brush Trade:

From the point of view of the Manufacturer, the position may be summarised as under:-

MATERIALS.—These have fallen considerably during the past eighteen months, partly because economic conditions and bad trade compelled merchants to liquidate their stocks, and partly because such loss in stock was in many instances up to a few months ago shared by the Treasury. These reasons have largely ceased to operate, stocks in most instances are small, raw materials have in many cases fallen to a price below that of replacement and in some instances to pre-war level, and the slightest demand consequent on a revival of trade abroad will cause an advance in prices. In some raw materials, notably Horsehair and certain kinds of Chinese Bristles and Fibres, an advance has already taken place, and a revival of trade in the U.S.A. which has already caused large orders to be placed in England will, if continued, harden the market for all commodities.

LABOUR.—Wages during the war advanced in different branches from 100% to 200% above pre-war rates. The first reduction of $\frac{1}{2}\%$ took place in January this year, but it was largely set off by a considerable increase in wages granted by the Trade Board to certain operatives employed in manufacturing brooms, banister brushes, etc.

OVERHEAD CHARGES.—As in most other trades, manufacturers on short time have been working under uneconomic conditions which do not permit them to cover their overhead charges. A protracted continuance of such conditions must inevitably lead to an increase in prices.

To conclude, manufacturers have given their customers the full advantage of any fall in raw materials, and in many instances anticipated the fall in wages which took place in January. A revival of trade either on the Continent or in America will cause a certain advance in raw materials which must be reflected in manufacturers' prices, except in so far as it may be mitigated by lower rates of wages or reduced overhead charges due to longer working hours. It is my opinion therefore that save for any unforeseen disturbance arising in the political world there is little chance of any general fall in the price of manufactured brushes, and conditions point to a possibility of higher prices in the spring.

FOR SALE.

DR Sale, 1 cwt. Camphor at 5s. lb.; 1 cwt. Pot. Permang. at 1d. W. H. Harrison, Chemist, C.C.H., Manchester.

DR Sale, an excellent Remedy for Gout, Rheumatism, kindred diseases, a Medicine and Embrocation, having been supplied by in Bournemouth for 10 years with great success and various testimonials from all classes; fully protected with trade-mark; would sell the whole rights; a great success. 16 Hawk-d Road, Boscombe.

PROPRIETARY RIGHTS for Disposal in various Ink Extracts and Hand Soap, genuine Grease, Paint, and Tar Solvent; silent proprietary names. Apply P.C.B. 92/10, Office of this Paper.

WE are relinquishing Dental Practice, and offer our whole equipment, in one lot, from Surgery and Workshop; Chairs, instruments, Vulcanisers, Tools, etc.; great bargain and opportunity that seldom occurs. Write for list and appointment to be in working order, Dental Surgery, 6 Russell Place, Woolwich, S.E.18 (opposite Arsenal Station).

BUSINESSES FOR DISPOSAL.

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

OLKESTONE.—For Sale, Freehold Business premises; splendid corner position for Chemist; busy neighbourhood; no position. Apply Owner, 47 Bournemouth Road, Folkestone.

ANCA SHIRE.—General Light Retail; now doing £16 to £18 per week; much neglected; good prices; plenty of scope for re-use; valuation about £500. Write ("L." 2/40), Office of this Paper.

ONDON (easy reach of City).—Main road; double-fronted shop; living accommodation; electric light; large cellar, suitable manufacturing; genuine old-established Business; turnover £70, increasing; busy N.H.I.; price £1,000 cash for quick sale. P.C.B. 92/11, Office of this Paper.

DLANDS.—Old-established Drug Stores for disposal, owing to the death of proprietor. 124/33, Office of this Paper.

OUTH STAFFS.—Cash Retail Business, with Dispensing; takings £18 weekly; N.H.I. over 400 per month; lock-up shop at rent; scope for increase; working-class district; splendid opportunity for beginner; terms, goodwill, stock, and fixtures, £600. Write 118/6, Office of this Paper.

ENUINE Business, good-class Family, in pleasantest North-West suburb; beautifully fitted shop; good house; valuable site; splendid opening for Optics; present rate of returns, £200; all at £1,750. Write 123/33, Office of this Paper.

CHEMICALS, DYESTUFFS, AND INTERMEDIATES.

LARGE firm, first-class repute, with world-wide connections, well organised for Export, wishes to dispose of London Offices and goodwill; only first-class firms or syndicate need apply in view of negotiations. ("L." 2/35), Office of this Paper.

EASE for Sale; lock-up shop, main road, S.W. district; fine opening for Chemist; price for 20 years' lease and fittings, £85; at very low rent. Richard Oughton, F.A.I., Trade Valuer, St. Saviour's Road, S.W. 2. Phone: Brixton 1884.

ODERN, well-fitted Cash Retail and Dispensing Business, in very busy main thoroughfare (West London), for Sale; great prospects, as neighbourhood is developing; 12-year lease, fixtures, fittings, and large Stock, £1,450; sound reason for disposal; moral or bankers' references required before further details given. ("L." 2/44), Office of this Paper.

FOR SALE,

THE Formula and Patent Letters of a thoroughly patented Proprietary Medicine, or would join another with capital to work same. Letters, Rhodes, New Waverley Hotel, 1 and 3 Lord Nelson Street, Liverpool.

ANTED, Medium-class Business, Kodak Agency; good house and garden, essential; old-established, neglected Business preferred; cash waiting; can take over at once. Meyer, Chemist, Shifnal, Salop.

AGENCIES.

Advertiser, having very influential connections in Germany, will be pleased to receive enquiries for

CHEMICALS
AND ANY OTHER LINES.

Apply ("L." 2/38) c/o "Chemist & Druggist," 42 Cannon Street, E.C.4.

A DVERTISER, with personal connection amongst South African Chemists, at present in this country on a business visit, is desirous of securing exclusive agencies for the following lines: Packed Goods, Druggists' Sundries, Toilet Specialities, and Perfumes. With a view to arranging an early interview please reply to ("L." 2/37), Office of this Paper.

AGENCIES.—A leading Export house for Drugs and Sundries, with representatives in India and Far East, is open to consider remunerative agencies for these countries; good representation is assured. Apply "E. H." (L. 1-13), Office of this Paper.

SOUTH AFRICA.

FIRM of Manufacturers' Agents, with old-established connection amongst the Wholesale and leading Retail Chemists and Druggists throughout the Union and Rhodesia, are open to entertain one or two more Agencies for well-advertised Goods; are prepared to carry stocks on Manufacturers' behalf, rendering monthly or quarterly account sales and remittances. Bankers' and trade references at disposal. Address "Progress," P.O. Box 344, Cape Town.

BUYING Agents required, having good connection among Chemists and Hairdressers, chiefly the latter; London and provinces; generous commission. Apply 92/100, Office of this Paper.

PHARMACIST desires position abroad, such as Africa, Fiji Islands, etc., as sole representative for first-class Drug and Sundries house or goods of a kindred nature; athletic, temperate, and gentlemanly personality; known well by all the chief wholesale houses here. Write, in first instance, to "Energetic" (122/17), Office of this Paper.

SOLE Agent offered to live and responsible firm who can market by mail order and general sales highest quality French Perfumes and Toilet Preparations; English Wholesale connections already initiated. ("L." 2/45), Office of this Paper.

SOUTH and South-West of England.—Advertiser wishes to represent Manufacturers of goods suitable for Wholesale and Retail Chemists, Hairdressers, and Stores on this ground, on commission basis only; three-monthly journeys; substantial turnover assured. "Agent" (124/34), Office of this Paper.

TENDERS.

THE Pharmaceutical Wholesale Business, Naamloze Vennootschap Handelsvereniging Voorheen Lumkeman at Sourabaya, with its own chemist shops at Sourabaya, Kediri, and Paseroean (Java), invites

TENDERS FOR CHEMICALS

for Pharmaceutical, Technical, and Scientific purposes. Further, of articles for Sick Nursing and Druggist Sundries.

Bank: Unie Bank for Nederland and Colonies.

Address: Lumkeman, Simpang 16, Sourabaya.

PARTNERSHIPS.

PARTNER required in sound country business; £50 required. "Pharmacist," Carlton Hotel, Tunbridge Wells.

FINANCIAL.

EXTRA Capital, not less than £2,000 and up to £10,000, offered for Partnerships and Directorships in really well-established businesses in town and country; a list of investors showing qualifications and money available sent. Officers' Partnership Guardian, 116 Victoria Street, S.W. 1. Call.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

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CAPITAL £1,000. ADDITIONAL SHORT CALL.—Young Pharmacist, 26, wishes to meet with an elderly Pharmacist who is anticipating retiring from business in the near future and selling outright; the business must be a good Family Retail and Dispensing one, and bear investigation; references exchanged; busy seaside resort not objected to; a really good partnership entertained. Apply "Nux Vom" (122/32), Office of this Paper.

HEATON MOOR or Stockport district.—Chemist's Business required; good-class Retail; neglected Business not objected to if scope for improvement; no immediate hurry. State particulars and price, in confidence, 124/22, Office of this Paper.

WANTED, Chemist's Business, with living accommodation, for about £1,500 cash; London or suburbs. Apply P.C.B. 91/10, Office of this Paper.

WANTED, Drug and Household Store; seaside, or country near to, preferred; suit smart unqualified; would consider any Mixed Business with good turnover; residence essential; correspondence confidential. Grace, 25 Market Place, Cannock, Staffs.

WANTED, Retail Business, doing £3,000 to £5,000, or one capable of doing so with improvements; no agents; good opening considered. 123/13, Office of this Paper.

WANTED, sound Business, in any pleasant locality, where capital above £400 could remain at 5 per cent.; one where there is scope for improvement under energetic management impelled by ambition and ability preferred; or partnership with view to ultimate succession; or undeveloped Business where £400 would purchase outright. Particulars to 123/28, Office of this Paper.

WANTED, at once, Chemist's Business or Drug Stores, in decent district; neglected one not objected to, if scope for increase; cash waiting; replies treated confidentially. "D. O." (123/34), Office of this Paper.

WANTED, good Middle-class Retail and Dispensing Business; shopping thoroughfare preferred; London or South Coast; cash available, and can take over now or later; particulars treated confidentially. 124/14, Office of this Paper.

WILL MR. GIBSON, of Braintree, who answered "Alpha" (95/9), Office of this Paper, on January 13th, kindly write to "S.", 98 Greyhound Lane, Streatham Common, S.W. 16?

SITUATIONS OPEN,**RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRIGHTON.—Junior Assistant for Dispensing and Light Retail business at once. Reply, stating age, height, experience, references, salary required, and enclose photo (to be returned), to F. C. Jackson, Chemist, 16 Western Road, Hove.

BRIGHTON.—Wanted, qualified Male Assistant (pre-war qualification), for Dispensing, Light Retail, and Photographic business; permanency to suitable man; only those with good references need apply; state age and salary required, send photo. 124/1, Office of this Paper.

EXETER.—Capable Assistant wanted at once; must be reliable Dispenser, of obliging disposition, and experienced in Dark-room Photography; no Counter work unless desired. All particulars, including references and photograph (returnable), to Luxton, Chemist, St. Thomas, Exeter.

LONDON, N.W.—Qualified Junior Assistant wanted for Dispensing; one who has had experience in this department. 22-24. Apply, giving full particulars and salary expected, Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W. 6.

LONDON, S.E.—Junior Assistant required, chiefly for Dispensing, in a brisk Cash business; must have had a good training. Please state full particulars of experience, age, and salary required (outdoors), 123/16, Office of this Paper.

LONDON, S.E. (eight miles out).—Required, for permanency, a competent and trustworthy Assistant, for brisk, old-established Retail and Dispensing Business, with Photography. Apply, stating age, experience, salary expected, references, and when disengaged (photo on loan if possible), to Beale & Son, Chemists, South, Norwood, S.E. 25.

LONDON, W.C.—Qualified Junior; must have served sound apprenticeship in a good-class Pharmacy; permanency; outdoors. Please apply in writing first, giving full particulars as to age, height, experience, and salary expected, Cotman's Pharmacy, 6 Bloomsbury Street, W.C. 1.

NWALES.—Required, qualified Assistant; if possible, young, single, and Welsh speaking; mixed business; light duties, with easy hours. Apply, with full particulars re salary (outdoors) required, references, etc., to "Bismuth" (122/14), Office of this Paper.

NEWQUAY, Cornwall.—Wanted, qualified Manager for Branch; high-class Dispensing and Photographic Business; must be a keen business man, with good experience and able to furnish satisfactory references. Apply, giving all particulars, stating salary required, to Alfred Bond, Ltd., 45 Bank Street, Newquay.

OXFORD.—Junior required for Retail Oil and Colour business; permanency; state age and salary required. Apply 122/1, Office of this Paper.

PUTNEY.—Qualified Evening Relief; each Thursday and alternate Sundays; experienced Dispenser and Counterman; good references. State full particulars of experience and terms, 125/6, Office of this Paper.

SHEFIELD.—Wanted, Branch Manager, age 30-38; must have had first-class experience and references for similar post; married; tactful; able to control staff; house and light provided; full particulars, first letter, state salary required. Eardley & Furnival, Pharmaceutical Chemists, 265 Glossop Road.

SOUTHSEA.—Qualified male Assistant; competent Dispenser; good Counterman, with knowledge of Photography; energetic and reliable; in good-class Dispensing and Retail; age about 25; single; outdoors. Apply, with full particulars, experience, and salary required, to W. A. Bell, Chemist, Southsea.

ASSISTANT, qualified (gentleman) required for good-class Retail and Dispensing business; must be capable of taking charge, reliable Dispenser and good Counterman. Apply, stating age, experience, and salary required, to Oakley, Lichfield Street, Wolverhampton.

BOOKKEEPER, reliable man, wanted by West-End Chemist; one acquainted with figures, etc., of the business; £35 per annum; nights after 6 p.m. or Saturday afternoons. 123/3, Office of this Paper.

EXPERIENCED and gentlemanly Assistant, aged 24-30, required for high-class Dispensing and Photographic Pharmacy; qualification not essential if thoroughly competent. Apply by letter to James S. Sumner, M.P.S., 327 Brighton Road, South Croydon.

LADY Assistant for good-class country business near Bournemouth, required by February 20th; must be reliable Dispenser and good Bookkeeper; Typist preferred. Apply, stating full particulars as to age, experience, and salary required, to Kirkman, Chemist, New Milton, Hants.

LADY Assistant, experienced, and able to Dispense. State terms and send references, Donaldson, Chemist, Eign Street, Hereford.

QUALIFIED Assistant for Light Retail and Dispensing; suit elderly gentleman desiring short hours and light duty; permanency; outdoors. State lowest salary, Burdett, West End, Dawlish, Devon.

WANTED, for first-class Retail business in Piccadilly, a smart qualified Assistant; must be first-class Counterman. Apply, giving full particulars and salary required, to "A. B." (122/24), Office of this Paper.

WANTED (immediately), a temporary unqualified Assistant for about a month, to fill vacancy due to illness. Apply to Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E. 2.

WANTED, a qualified Dispenser; must be neat, quick, and accurate, understand Bookkeeping, some knowledge of N.H.I., in a country practice. Apply, stating salary (outdoors), to "G." (123/19), Office of this Paper.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM DISTRICT.—Young, energetic, and ambitious Salesman required for famous and nationally advertised lines of Patent Medicines and Toilet Goods. Give full details of training, experience, age, etc., to E. J., c/o Saward Baker & Co., Ltd., 27 Chancery Lane, London, W.C. 2.

WEST OF ENGLAND.—Representative wanted by well-known Wholesale house; applicants should give full particulars of previous experience, and must be prepared to live on the ground. ("L." 1/32), Office of this Paper.

A WELL-KNOWN firm of Chemists' Agents require a young, energetic Representative, calling on Chemists, for South Wales; commission basis. Reply, stating experience and when disengaged. to ("L." 2/42), Office of this Paper.

A N Irish gentleman, with ambition, well introduced to the Chemists in Ireland and capable of producing business of magnitude in Toilet Lines, Packed Goods, Specialties, and certain Druggists' Sundries, is invited to place particulars of his past experience, age, along with some idea of salary and expenses required, to represent an old-established English Manufacturing house. Write in confidence to "Business" ("L." 2/36), Office of this Paper.

COMPRESSED Tablets, Pills, Capsules, etc.—London house wants commission men, especially for bulk orders; liberal terms. Offers under "Thyroid" (P.C.B. 92/7), Office of this Paper.

EXPERIENCED and well-known Commission Travellers are required throughout the country for famous and nationally-advertised lines of Patent Medicines and Toilet Goods. Give fullest details of experience, present lines, ground covered, etc., to E. J., c/o Saward, Baker & Co., Ltd., 27 Chancery Lane, London, W.C. 2.

EXPERIENCED Junior wanted for Wet and Dry Counter, Wholesale Druggists, London, East. Apply, by letter, giving experience, age, and salary required, 124/2, Office of this Paper.

IF you call upon Dentists and can sell goods to them we want to hear from you; an established house is prepared to offer generous straight commission terms to those who are real business-getters; ours is a good everyday line and one that commands plentiful repeats. State territory covered and full particulars to "M." (2/360), Office of this Paper.

LIVE Representatives required for sale of advertised Proprietary Lines stocked by all Chemists, also Toilet Soaps, Perfumery, and Toilet Preparations; commission basis. State fullest particulars regarding territory covered, other agencies held, age, etc., in confidence, to P.C.B. 92/9, Office of this Paper.

REPRESENTATIVE for Northern English Counties wanted by well-known Wholesale house with established connection; applicants must have established connection and live on the ground. Further particulars to ("L." 1/28), Office of this Paper.

REPRESENTATIVE, with live connection among Chemists in South Wales and West of England, wanted by well-known and old-established firm, manufacturing Pills and Tablets; commission basis; part time not objected to. Applications, giving full particulars, stating ground covered, will be treated in strict confidence. Replies: "Extension" ("L." 2/43), Office of this Paper.

REPRESENTATIVE wanted for Leeds. State all the usual particulars to H. M. R., c/o Hirst, Brooke & Hirst, Ltd., Wholesale Druggists, Leeds.

REPRESENTATIVES, with strong and live connection, required for Durham, Northumberland, Cumberland, and Westmorland; one resident in Newcastle or district preferred; liberal commission basis and drawing account arranged; to handle Perfumery, Soap, Tablets, Packed Goods, and Photographic lines. 125/6, Office of this Paper.

THREE Representatives wanted by an important firm of Perfumers and Chemists to develop the sales of their lines with the help of an advertising campaign; one for London, one for territory north of Birmingham, one for territory south of Birmingham; must be experienced and gentlemanly, and well known to the Chemists on that territory; permanent positions; good salary and commission; replies treated as confidential; state when can be free. Apply "E. B." ("L." 2/39) Office of this Paper.

TRAVELLERS, already calling Retail Chemists and Fancy Goods Dealers, Yorkshire, Lancashire, and Midlands districts, to carry first-class side-line on commission basis; goods guaranteed; samples small. Apply, stating ground covered and how often, 118/11, Office of this Paper.

WANTED, Chemist for large factory in the Midlands; preference given to one with experience in analysis of Clay and Coal. Apply ("L." 2/41), Office of this Paper.

WET Counter.—Female Filler and Finisher required by London Wholesale Druggists; state experience, age, and wages required. P.C.B. 91/29, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

PARIS.—Assistant; knowledge of French and Continental experience; age, height, references, salary, photo (to be returned). Roberts & Co., 5 Rue de la Paix, Paris.

SOUTH AFRICA.—Assistant required for good-class business in South Africa; two years' agreement; second-class passage paid; must be willing and energetic; good opening right man; total abstainer, and Scotch or North Ireland man preferred. Write, giving full particulars, to P.C.B. 90/34, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

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A.A.A. —CAPABLE Pharmacist, disengaged; 33; single; good experience; pre-war qualified; any capacity; references; moderate remuneration. "D.S.S.", 48 Burngreave Street, Sheffield.

A.A.A. —CAPABLE Pharmacist disengaged; 27; ten years' experience; married; permanency; Manager or Assistant; excellent references; moderate salary. Pharmacist, 47 Ford Hill, Devonport.

A JUNIOR (21), good all-round experience Dispensing, Counter, and Photography, desires change; town preferred. Symmons, "Stoneleigh," Milford Haven.

A LADY Dispenser (20), Hall, desires post; experience in Dispensing and Bookkeeping. Apply Thomas, Tygwyn, Johns-town, Carmarthen.

A QUALIFIED Chemist (29) requires temporary employment, part time; excellent references. Apply 91/100, Office of this Paper.

A QUALIFIED Chemist (27), as Manager or Senior; energetic, R. I. E., 18 Muncaster Road, West Side, Clapham Common, S.W. 11.

A QUALIFIED Chemist; 48; permanency, temporary, or locum; fully experienced and competent; disengaged. W. Owen, 5 Rutland Street, Colne, Lancs.

A QUALIFIED Pharmacist; thorough experience; excellent references; Liverpool district preferred. Apply Joughin, 63 Oxford Road, Altrincham, Cheshire.

A RELIABLE Assistant, just disengaged, requires situation; good and varied experience Counter, Dispensing, Photography, Window-dressing; active and trustworthy. Barrett, 10 London Road, Portsmouth.

A PPRENTICESHIP (London area) required by young lady; matriculated and one year college. D. W., 9 Ridge Road, N. 8.

A N experienced Assistant, elderly, requires part-time employment, mornings, evenings, week-ends; moderate. "Statim," 38a Broadway Parade, Crouch End, N. 8.

AS Assistant Dispenser; age 27; married; two years' experience as Assistant Dispenser and Dresser. Apply M.L. 75259/21, Office of this Paper.

AS Dispenser, young lady, Hall and Part I. qualification; experienced; disengaged. A. D. Strong, 7 Pownall Gardens, Hounslow.

ASsistant or Manager; age 36; single; educated Edinburgh University; thoroughly experienced; conversant with medical professions. Apply M.L. 97404, Office of this Paper.

ASsistant; 42; war service 15 months; 13 years' experience as Chemist's Assistant. Apply M.L. 8656/21, Office of this Paper.

ASsistant; competent take charge; 19 years' good experience; unqualified; 33; excellent references. Wells, 105 Oxford Road, Reading.

ASsistant, unqualified; 16 years' first-class experience Dispensing and Counter work; six years present berth; thoroughly competent; interview granted if desired; South Coast preferred. Bower, 41 Queen's Road, Mortlake, S.W.

ASsistant Dispenser, just qualified, needs a post in Hospital Dispensary or any suitable position in London; good experience more essential than large salary. Janet Lindsey, 4 Cambalt Road, Putney Hill, S.W. 15.

ASsistant, unqualified; 29; 12 years' good all-round experience; excellent testimonials; moderate salary; disengaged. "Astainer," 1 James Street, Rochester.

ASsistant, unqualified; 30; Counter and Dispensing; good experience and references; disengaged. "S.", 36 Jennings Road, East Dulwich, S.E. 22.

ASsistant or Manager; 23; qualified; seven years' all-round experience, London and provinces; view to succession entertained; good medium class; Midlands or South preferred. "M.P.S.", 5 Arundel Street, Mossley, Lancashire.

ASsistant, unqualified; good-class Dispensing and Retail experience; excellent references. Parkin, Fernley, Copt Elm Road, Charlton Kings, Cheltenham.

ASsistant, unqualified; 18 years' good experience (London and country); good references. "Chemicus," 123 Elms Road, Clapham Park, S.W.

ASsistant Manager or Lecum; tall (30); West-End experience; moderate salary. "M.P.S.", 24 Eaton Terrace, Belgrave, S.W.

ASsistant Dispenser, lady (Hall), Hospital experience, desires a post with Doctor or Hospital, in town or country. "R.", 150 Hartfield Road, Wimbledon.

ASsistant (24), unqualified; Dispensing and Counter; all-round experience; well recommended. Knight, 129 Liverpool Road, Great Crosby, Liverpool.

ASsistant, qualified; whole or part time; experienced; good references; moderate salary. "Chemicus," 21 Edgeley Road, Clapham Road, S.W.

ASsistant (26), unqualified; temporary or permanency; first-class references; Manchester or district. R. Sunderland, 7 Keighley Road, Colne.

ASsistant; 27; qualified; energetic; capable of assuming control; well educated; smart appearance; disengaged; locality immaterial; references; all-round experience. Farman, Gloucester Terrace, Thorpe Bay, Essex.

ASsistant (23), qualified, desires situation; disengaged early March; London or South Coast, not essential; references. Apply 123/27, Office of this Paper.

ASsistant (32); 15 years' experience; accurate Dispenser, private, N.H.L., 70 to 100 per diem; Stockkeeper and Counter; excellent references; London. "A. B. C." (124/37), Office of this Paper. Will Advertiser kindly forward name and address to this Office?

BLACK & CO., Chemists, St. James' Street, Brighton, thoroughly recommend Assistant for Dispensing or Counter; capable of taking charge during absence of principal; age 22; height 5 ft. 6 in. Write Hill, Anchorage, Atlingworth Street, Brighton.

BRANCH Manager or Locum; experienced, reliable; London, provincial, seaside; satisfactory references; disengaged. "Amidol," 38 Wendover Road, Harlesden.

BRISTOL or District.—Unqualified (22), requires situation; good experience at Dispensing, Counter, and Window-dressing; reliable; excellent references. W. G. Dustin, 24 Drummond Road, Ashley Road, Bristol.

CAPABLE man, 35, seeks change; 20 years' Departmental Stores experience; thorough knowledge of buying Patents, Surgical, and Sundries, also controlling staff. R. T., 84 Montholme Road, S.W. 11.

CLERICAL.—Day or evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (269/28), Office of this Paper.

COMPETENT Assistant as Senior or Manager, in good-class business; West End or City preferred; best experience in South Coast and West End; excellent references. 124/10, Office of this Paper.

COUNTERMAN (38); unqualified; expert Salesman, Window-dresser, and capable Organiser; Dispensing and Photographic; £4 10s. per week. 124/40, Office of this Paper.

CUMBERLAND.—Lady, Hall qualification, accurate Dispenser, all-round experience, knowledge of Bookkeeping, desires post with Chemist or Doctor. Apply 116/14, Office of this Paper.

DISENGAGED; Dispensing, Counter, Stock; active; good Prescriber, successful Manager; unqualified; 45. Fletcher, 11 Kingsdown Road, Holloway, N. 19.

DISENGAGED (48); qualified Chemist; permanent or locum; experienced; accustomed N.H.L. "Statim," 27 Blackstock Road, N.W.

DISENGAGED; qualified (48); experienced; locum or permanent; accustomed N.H.L. "Statim," 172 Albany Street (telephone: 5670 Museum), N.W.

DISPENSER; age 26; single; qualified Dispenser; good experience; X-ray Operator and Electrician; General Medical Hospital and Chemical experience. Apply M.L. 50619, Office of this Paper.

DISPENSER (lady), Minor qualification, excellent testimonials, some Hospital experience, requires post, Hospital, Doctor, or as Dispenser in business. Pearson, Hillcrest, Lowdham, Notts.

DISPENSER.—Young lady (Hall Certificate), experienced, desires post with Doctor or Chemist; town or country; temporary or permanent; free now. Apply Sands, 16 Queen Alexandra Mansions, London, W.C.

DISPENSER (lady), Hall; experienced Hospital, Surgery (Book-keeping); locum or permanent; excellent testimonials; in London or near. Apply 123/35, Office of this Paper.

ENERGETIC young qualified Assistant; West-End experience; disengaged. Write Jones, Sion House, Dolwen Road, Abergele, N. Wales.

EVENING Dispensing.—Young lady (Hall) desires spare-time post; some experience Hospital and Doctor; good references. Miss Bell, 11 Goodge Street, W. 1.

GENTLEMAN (28), M.P.S., and working for Inter-Science, requires post, with evenings free, as Laboratory Assistant or Assistant to Analytical Chemist. J. G. Everett, 151 Praed Street, W. 2.

GENTLEMAN, 26, abstainer, seeks berth, Photographic Department; can promote trade by giving advice and turning out first-class work, also help Drug Department; permanency; South Coast preferred; disengaged. Apply 124/18, Office of this Paper.

GEO. MORRIS & SON, Wednesbury, recommend their qualified Manager, Mr. Ecob; good Dispenser, Window-dresser, Photography, Counter, Prescribing, and generally efficient; moderate salary.

LADY Dispenser-Bookkeeper (Hall) desires post; Doctor or Institution; experienced; permanency. "Dispenser," 10 Gauden Road, Clapham, S.W. 4.

LADY Dispenser (30); qualified; disengaged; Chemists' and Hospital experience; or would assist Doctor or Dentist as Attendant. G. Swate, 241 Lauderdale Mansions, Maida Vale.

LADY Dispenser, Minor qualification; requires post, locum or permanency; experienced; disengaged. Apply 124/16, Office of this Paper.

M.P.S., just disengaged, requires responsible position; highly recommended; town and country experience; age 46; married; moderate salary; permanency preferred. 27 Manor Road, South Norwood, S.E. 25.

M.P.S. (25), thoroughly reliable and competent, desires a situation, temporary or permanent, immediately; 7 years' experience; tactful Salesman; moderate remuneration. "Statim," 32 Alnwick Road, South Shields.

M.P.S., 94 Cannon Street Road, E. 1, wishes to communicate with anybody wishing to engage reliable Chemist, age 23; excellent references; energetic; good Dispenser; matriculated; Square-trained; remuneration reasonable.

MANAGER or Assistant; unqualified; 43; good Counter hand, first-class Dispenser and Prescriber; practical knowledge of Photography; disengaged. Apply 123/40, Office of this Paper.

MANCHESTER District.—Qualified, middle-aged, as Branch Manager or Assistant; moderate salary; would take part-time work; eight years last reference. "Chemist," 35 Derby Street, Moss Side, Manchester.

MANCHESTER District.—Advertiser (33), 13 years' experience with high-class and well-known firms, and holding their highest testimonials, proficient in every branch, unqualified, seeks any position of responsibility where proficiency and experience are needed. Apply 124/4, Office of this Paper.

PHARMACIST desires situation; qualified; 38; well recommended; 10 years' reference; moderate salary. Apply "Statim," 45 Stephen's Road, Tunbridge Wells.

QUALIFIED Manager or Assistant; 10 years' high-class experience in Dispensing, Counter work, Photography, etc.; management preferred; interview granted if desired; tall, dark; age 30 years. Dunstan, 41 Queen's Road, Mortlake, S.W.

QUALIFIED; age 37; over 20 years' experience in Dispensing, Counter, Photography, etc.; London and Continental; speaks French. Apply "Senior" (121/17), Office of this Paper.

QUALIFIED (24), desires situation; Photography, quick Counter, and Dispensing. Crossling, Chemist, Aberdeen.

QUALIFIED; 50; energetic and capable; last situation 8 years as Branch Manager; disposal of business cause of leaving; first-class references; disengaged. "Chemist," 22 Sherwood Street, Fallowfield, Manchester.

QUALIFIED; 28; tall, energetic, well experienced; good Counter man, Window-dresser; Branch Manager or Assistant; free when desired. Apply 124/9, Office of this Paper.

QUALIFIED; 41; experienced; disengaged; moderate salary; Dispensing and Photo. Foster, Rock Channal, Rye.

QUALIFIED; 39; excellent experience in all branches, as Branch Manager, etc. Smith, 122 Wash Lanc, Bury, Lancs.

QUALIFIED; 24; whole or part time; good references; knowledge of Photography; moderate salary. "Pharmacist," 85 Bromefelde Road, Clapham.

RELIEF Hand, for long or short period; qualified; disengaged; terms moderate. "M.P.S." Messrs. Southalls, Lower Priory, Birmingham.

REQUIRED, by young qualified Chemist, Square-trained, at present managing Retail Pharmacy, suitable position. Apply 124/3, Office of this Paper.

URGEANT.—Qualified; Scotzman; 28; any capacity; experience all classes Dispensing, Counter, Photographic, Stock, Book-keeping; 14 years, town and country; reliable references; moderate salary. Buchanan, Ramsey Road, Dormanstown, Redcar.

UNQUALIFIED; 22; smart, energetic; Counter, Dispensing, Photography; well recommended. Harrington, 352 York Road, N. 7.

UNQUALIFIED, as Assistant or Manager; good Dispenser and Counter Hand; age 48; height 5 ft. 11 in. Address "Eucryl," 97 Strand Street, Douglas.

UNQUALIFIED Junior, 3 years' good-class experience, desires post in Liverpool or near. Thomas, Tymawr, Bodedern, Anglesey.

UNQUALIFIED Assistant, ex-Service man, 3 years Counter and Dispensing, seeks post in the North; 50s. weekly. Apply 124/12, Office of this Paper.

YOUNG lady, 21, requires situation; 5 years' experience in good-class Dispensing at Harrogate; Yorkshire preferred, but not essential. Armstrong, Park Grove, Knaresbroy.

£200 (INVESTMENT), with my services, offered by qualified man of good all-round experience. "Statim" (125/1), Office of this Paper.

WHOLESALE.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A QUALIFIED Chemist, 34, first-class Wholesale and Retail experience, offers to represent a good firm; excellent credentials. Apply 123/10, Office of this Paper.

ADDITIONAL Representation required by Traveller; allowance towards expenses and commission; wide area covered. Kindly state particulars, 124/32, Office of this Paper.

ADVERTISER (27), tactful, energetic, nine years' Retail experience, thorough knowledge Drugs, etc., desires berth, Wholesale or Representation; excellent references. Particulars and terms offered to "Rossmore," Llanlltwy Major, Cardiff.

ASSISTANT, unqualified; 26; good experience; used to country Wholesale. "Salvete" (123/32), Office of this Paper.

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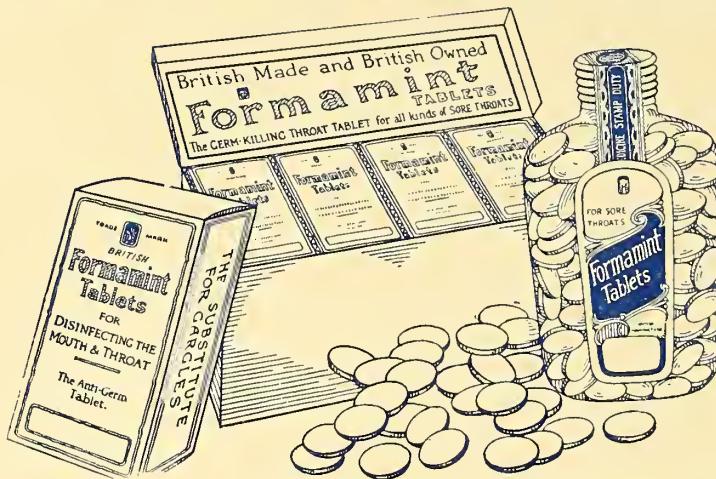
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